abcam

ab317319

Anti-Claudin 3 antibody [EPR28731-2]

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR28731-2
Purification technique	Affinity purification Protein A
Concentration	0.507 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

mIHC

Tested

Species	Mouse
Dilution info	1/2000
Notes	-

Species	Rat

Dilution info	1/2000
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/2000

Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information Cldn3

Function	Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The protein 'Claudin 3' also known simply as Claudin-3 or CLDN3 is an important component of tight junctions in epithelial and endothelial cells. Claudin 3 has a molecular weight of approximately 22 kDa. It is expressed in a variety of tissues including the liver lungs and kidneys. By forming channels within tight junctions Claudin 3 regulates paracellular transport and maintains the barrier properties of cell layers thereby playing a significant role in preserving cellular environments.
Biological function summary	Claudin 3 contributes to the establishment and function of tight junctions that create a selective barrier in epithelial cell layers. This protein works as part of a larger complex consisting of other claudin family members which together ensure the integrity and permeability of the barrier. Through these complexes Claudin 3 helps facilitate cell polarity and tissue homeostasis which are essential for normal cellular function and organization.
Pathways	Claudin 3 participates in signaling pathways such as the Wnt/beta-catenin pathway and the epidermal growth factor receptor (EGFR) pathway. Claudin 3 modulates these pathways alongside other claudin proteins and partners like zonula occludens proteins. These interactions are central to processes like tissue morphogenesis and wound healing where precise control of cellular communication and migration is required.
Associated diseases and disorders	Claudin 3 is linked to various cancers including ovarian and prostate cancer. Its expression is often altered in tumor cells where its dysregulation can lead to the disruption of tight junctions and contribute to cancer progression. In ovarian cancer Claudin 3 interacts with matrix metalloproteinases (MMPs) influencing the metastatic potential of cancer cells. Understanding Claudin 3's role can provide insights into new therapeutic targets for managing epithelial barrier dysfunction in cancer.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

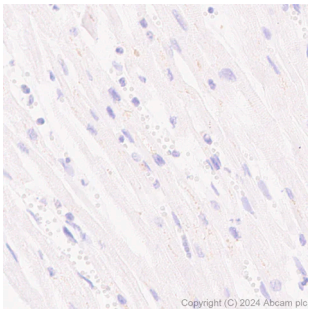
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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23 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cardiac muscle using rabbit Anti-Claudin 3 antibody

Immunohistochemical analysis of paraffin-embedded Human cardiac muscle tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

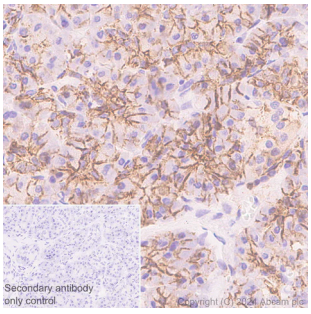
Low expression tissue: no staining on human cardiac muscle. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

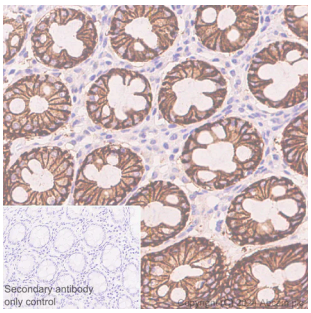
Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human pancreas. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

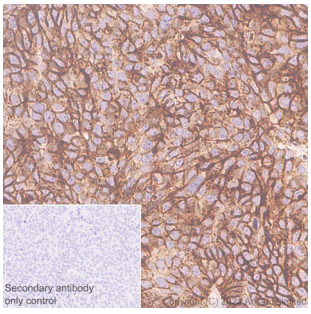
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human colon. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

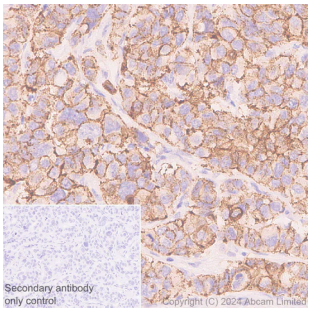
Immunohistochemical analysis of paraffin-embedded Human endometrial carcinoma tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human endometrial carcinoma. The section was incubated with ab317319 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

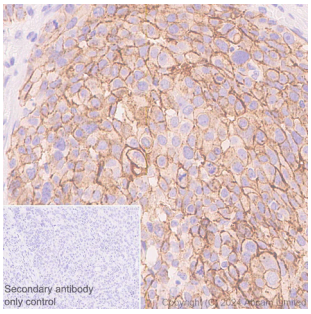
Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human breast carcinoma. The section was incubated with ab317319 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

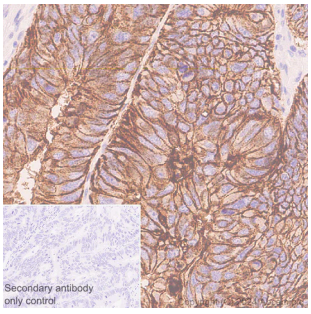
Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human ovarian carcinoma. The section was incubated with ab317319 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

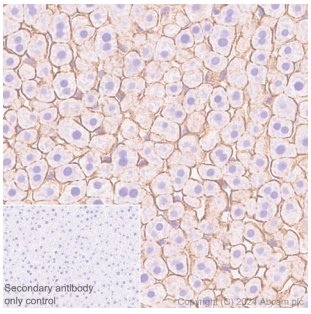
Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human colon carcinoma. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

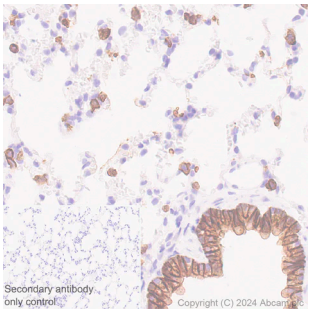
Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat liver. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

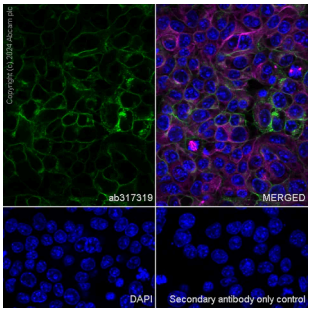
Immunohistochemical analysis of paraffin-embedded Rat lung tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat lung. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized Hepa1-6 (mouse hepatoma epithelial cell) cells labelling Claudin 3 with ab317319 at 1/50 (9.62 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green).

Confocal image showing membranous staining in Hepa1-6 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labeled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5ug/ml dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

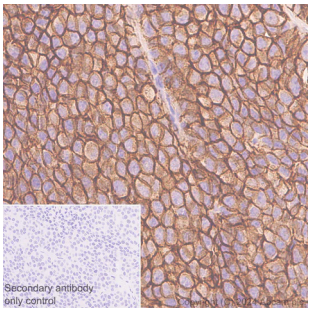
Positive staining on mouse lung (PMID:9892664). The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Immunohistochemical analysis of paraffin-embedded Mouse breast carcinoma tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

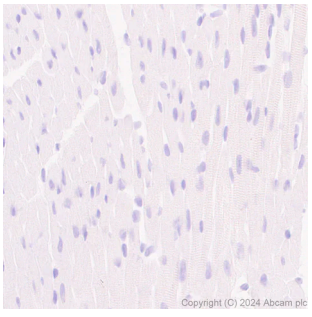
Positive staining on mouse breast cancer. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cardiac muscle using rabbit Anti-Claudin 3 antibody

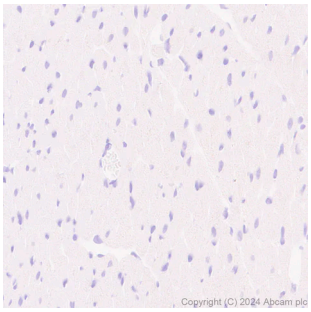
Immunohistochemical analysis of paraffin-embedded Mouse cardiac muscle tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: no staining on mouse cardiac muscle (PMID:9892664). The section was incubated with ab317319 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat cardiac muscle using rabbit Anti-Claudin 3 antibody

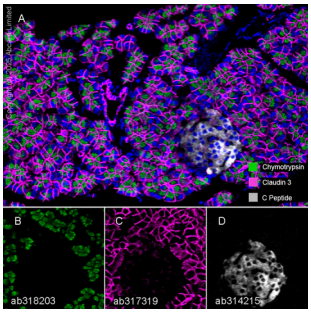
Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: no staining on rat cardiac muscle. The section was incubated with ab317319 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Multiplex immunohistochemistry - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Multiplex immunohistochemistry staining of rat pancreas tissue using rabbit Anti-Claudin 3 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat pancreas tissue staining Chymotrypsin with ab318203 at a 1/6000 dilution, ab317319 anti-Claudin-3 used at 1/2000 dilution and ab314215 anti-C Peptide used at a 1/500 dilution. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

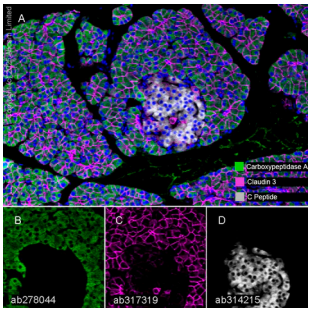
Panel A: merged staining of anti-Chymotrypsin (green; Opal™520), anti-Claudin 3 (magenta; Opal™690) and anti-C Peptide (gray; Opal™570) on rat pancreas.
Panel B: anti-Chymotrypsin staining exocrine gland in rat pancreas.
Panel C: anti-Claudin 3 staining cell membrane in rat pancreas.
Panel D: anti-C Peptide staining islet cells in rat pancreas.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab318203, ab317319 and ab314215 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Multiplex immunohistochemistry - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Multiplex immunohistochemistry staining of Rat pancreas tissue using rabbit Anti-Claudin 3 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat pancreas tissue staining Carboxypeptidase A with ab278044 at a 1/4000 dilution, ab317319 anti-Claudin-3 used at 1/2000 dilution and ab314215 anti-C Peptide used at a 1/500 dilution. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

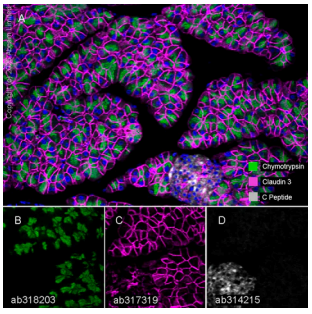
Panel A: merged staining of anti-Carboxypeptidase A (green; Opal™520), anti-Claudin 3 (magenta; Opal™690) and anti-C Peptide (gray; Opal™570) on rat pancreas. Panel B: anti-Carboxypeptidase A staining acinar cells in rat pancreas.
Panel C: ant-Claudin 3 staining cell membrane in rat pancreas.
Panel D: ant-C Peptide staining islet cells in rat pancreas.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab278044, ab317319 and ab314215 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Multiplex immunohistochemistry - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Multiplex immunohistochemistry staining of mouse pancreas tissue using rabbit Anti-Claudin 3 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded mouse pancreas tissue staining Chymotrypsin with ab318203 at a 1/6000 dilution, ab317319 anti-Claudin-3 used at 1/2000 dilution and ab314215 anti-C Peptide used at a 1/500 dilution. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

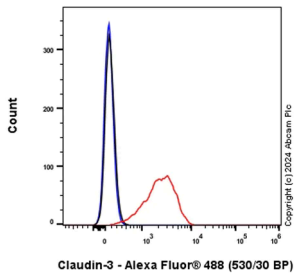
Panel A: merged staining of anti-Chymotrypsin (green; Opal™520), anti-Claudin 3 (magenta; Opal™690) and anti-C Peptide (gray; Opal™570) on mouse pancreas.
Panel B: anti-Chymotrypsin staining exocrine gland in mouse pancreas.
Panel C: anti-Claudin 3 staining cell membrane in mouse pancreas.
Panel D: anti-C Peptide staining islet cells in mouse pancreas.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab318203, ab317319 and ab314215 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

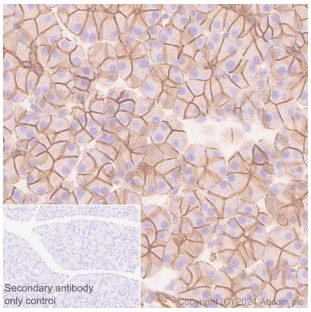
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Hepa1-6 (mouse hepatoma epithelial cell) cells labelling Claudin 3 with ab317319 at 1/50 dilution (1ug)/(Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

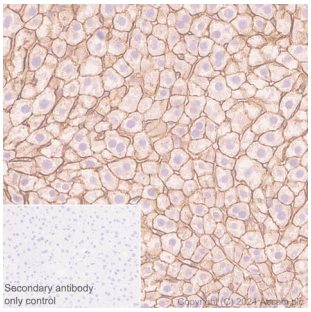
Immunohistochemical analysis of paraffin-embedded Rat pancreas tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat pancreas. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

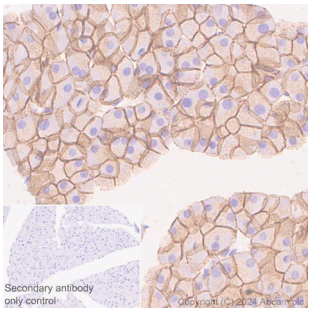
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse liver (PMID:9892664). The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

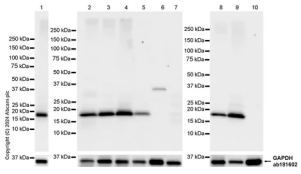
Immunohistochemical analysis of paraffin-embedded Mouse pancreas tissue labeling Claudin 3 with ab317319 at 1/2000 (0.241 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse pancreas. The section was incubated with ab317319 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Western blot - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Western blot staining using rabbit Anti-Claudin 3 antibody

Low expression tissue: heart (PMID: 9892664), spleen (PMID: 9892664).

The identity of the higher MW band at approximately 35 kDa (in lane 6) is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Claudin 3 antibody [EPR28731-2] (ab317319) at 1/1000 dilution

Lane 1:
Mouse breast cancer tissue lysate at 20 µg

Lane 2:
Mouse pancreas tissue lysate at 20 µg

Lane 3:
Mouse liver tissue lysate at 20 µg

Lane 4:
Mouse colon tissue lysate at 20 µg

Lane 5:
Mouse lung tissue lysate at 20 µg

Lane 6:
Mouse heart tissue lysate at 20 µg

Lane 7:
Mouse spleen tissue lysate at 20 µg

Lane 8:
Rat liver tissue lysate at 20 µg

Lane 9:
Rat colon tissue lysate at 20 µg

Lane 10:

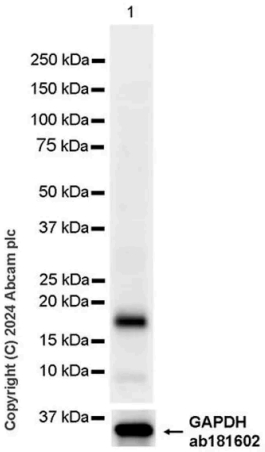
Rat spleen tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 18 kDa, 36 kDa

Exposure time: 15s



Western blot - Anti-Claudin 3 antibody [EPR28731-2] (ab317319)

Claudin 3 Western blot staining of Hepa1-6 (mouse hepatoma epithelial cell) whole cell lysate using rabbit Anti-Claudin 3 antibody

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Claudin 3 antibody [EPR28731-2] (ab317319) at 1/1000 dilution

All lanes:
Hepa1-6 (mouse hepatoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 18 kDa, 36 kDa

Exposure time: 37s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.