abcam

ab259999

Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR22929-208
Purification technique	Affinity purification Protein A
Concentration	1.055 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	-

Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	-

Species	Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

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

ICC/IF

Tested

Species	Mouse, Human

Dilution info	-
Notes	-

Expected

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

IHC-Fr

Tested

Species	Mouse
Dilution info	-
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Species	Rat
Dilution info	-
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Expected

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

Flow Cyt (Intra)

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information ANXA4

Function	Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab259999 is the carrier-free version of ab256456.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	Annexin-4 also known as ANXA4 is a protein with a molecular mass of approximately 36 kDa. It belongs to the annexin family characterized by their ability to bind phospholipids in a calcium-dependent manner. Annexin-4 is widely expressed in various tissues including epithelial cells in the gastrointestinal tract kidney and placenta. This protein associates with the inner surface of the plasma membrane and plays roles in processes like vesicle trafficking and membrane dynamics.
Biological function summary	The protein functions in cellular processes involving membrane-related activities. It does not appear to be part of a larger stable complex but researchers have observed its interaction with cell membranes and involvement in membrane repair and cell signal transduction. Annexin-4 can mediate interactions between the cytoskeleton and the plasma membrane impacting cell motility and structure.
Pathways	Annexin-4 functions in the phospholipid signaling pathways particularly influencing pathways related to calcium signaling. In the calcium-dependent signaling pathway Annexin-4 regulates cellular responses by cooperating with proteins such as calmodulin and other annexins contributing to processes like cell proliferation and apoptosis.
Associated diseases and disorders	Annexin-4 has shown associations with cancer and inflammatory diseases. Abnormal expression of Annexin-4 has been observed in certain cancer types where it may affect tumor metastasis and progression by modifying cellular adhesion and migration. Additionally its interactions with inflammation-related proteins such as interleukins suggest its involvement in inflammatory responses and disorders like inflammatory bowel disease. Researchers continue to explore its potential as a biomarker for early detection and as a target for therapeutic intervention.

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.

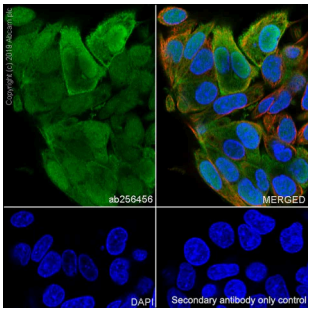
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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16 product images

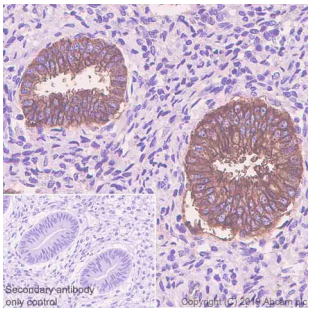


Immunocytochemistry/ Immunofluorescence - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labeling Annexin-4/ANXA4 with ab256456 at 1/100 5.2 µg/ml dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing nuclear, cytoplasmic and staining in HepG2 cell line. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 2 µg/ml dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

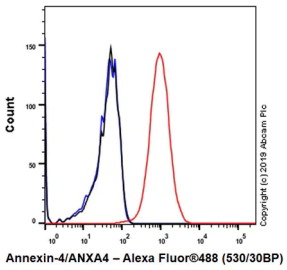
Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling Annexin-4/ANXA4 with ab256456 at 1/5000 dilution (0.103 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in human endometrium

(PMID: 16954445) is observed. The section was incubated with ab256456 for 10 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

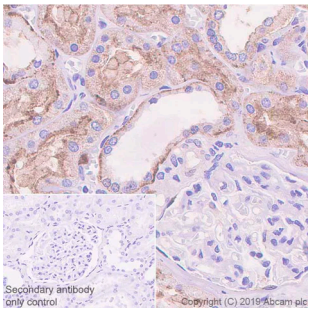
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Flow Cytometry (Intracellular) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Flow Cytometry (Intracellular) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling Annexin-4/ANXA4 with ab256456 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



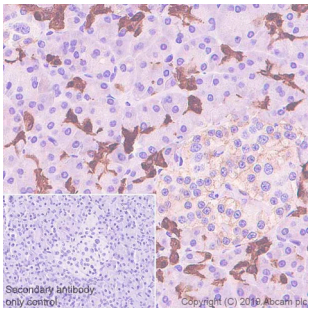
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling Annexin-4/ANXA4 with ab256456 at 1/5000 dilution (0.103 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in human kidney (PMID: 9720986) is observed. The section was incubated with ab256456 for 10 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



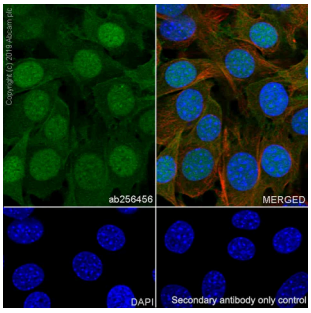
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling Annexin-4/ANXA4 with ab256456 at 1/5000 dilution (0.103 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in centroacinar cells and islets of human pancreas. The section was incubated with ab256456 for 10 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

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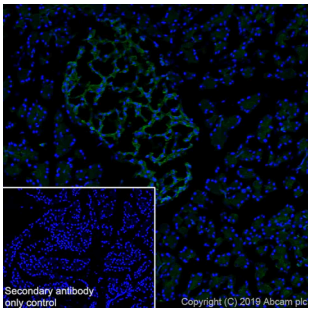


Immunocytochemistry/ Immunofluorescence - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labeling Annexin-4/ANXA4 with ab256456 at 1/100 5.2 µg/ml dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing nuclear, cytoplasmic and staining in NIH/3T3 cell line. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).
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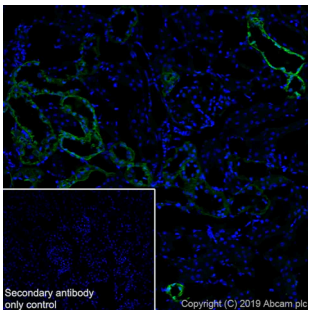
Immunohistochemistry (Frozen sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized rat pancreas tissue labeling Annexin-4/ANXA4 with ab256456 at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Positive staining on mouse pancreas (PMID: 25176043) is observed. The nuclear counter stain is DAPI (blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).

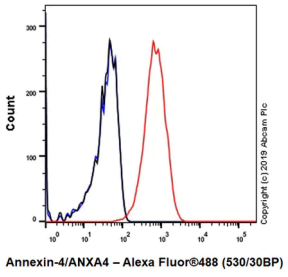


Immunohistochemistry (Frozen sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized rat kidney tissue labeling Annexin-4/ANXA4 with ab256456 at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Positive staining on rat kidney (PMID: 15145526) is observed. The nuclear counter stain is DAPI (blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

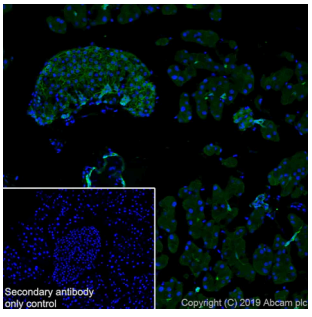
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



Flow Cytometry (Intracellular) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Flow Cytometry (Intracellular) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling Annexin-4/ANXA4 with ab256456 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
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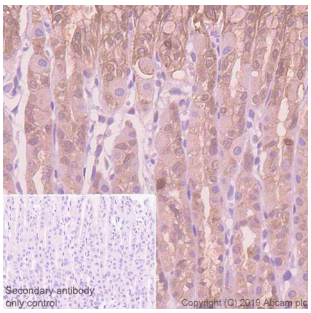
Immunohistochemistry (Frozen sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized mouse pancreas tissue labeling Annexin-4/ANXA4 with ab256456 at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Positive staining on mouse pancreas (PMID: 25176043) is observed. The nuclear counter stain is DAPI (blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

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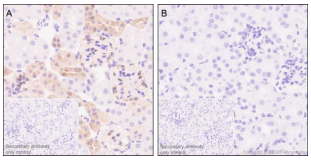


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Immunohistochemical analysis of paraffin-embedded rat stomach tissue labeling Annexin-4/ANXA4 with ab256456 at 1/5000 dilution (0.103 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in rat stomach. The section was incubated with ab256456 for 10 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

This data was developed using ab256456, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded (A) Kidney tissue from wild-type C57BL/6JGpt mice, and (B) Kidney tissue from Anxa4 knockout mice labeling Annexin-4/ANXA4 with ab256456 at 1/10000 dilution.

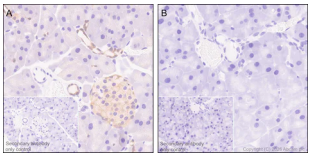
Positive staining on (A) Kidney tissue from wild-type C57BL/6JGpt mice and no staining on (B) Kidney tissue from Annexin-4/ANXA4 knockout mice.

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Anxa4-KO homozygous mice (Strain ID: T015473).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

This data was developed using ab256456, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded (A) Pancreas tissue from wild-type C57BL/6JGpt mice, and (B) Pancreas tissue from Anxa4 knockout mice labeling Annexin-4/ANXA4 with ab256456 at 1/10000 dilution.

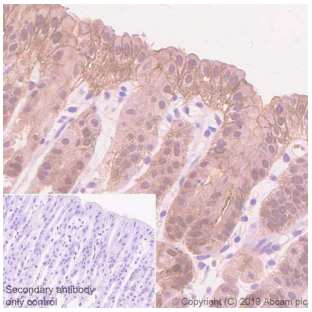
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The primary antibody was incubated for 30 mins at room temperature.

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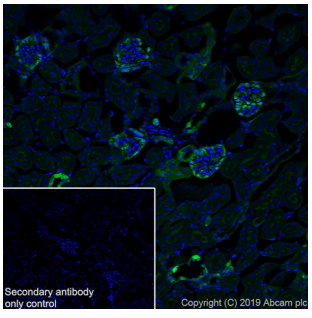
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Annexin-4/ANXA4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling Annexin-4/ANXA4 with ab256456 at 1/5000 dilution (0.103 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in mouse stomach. The section was incubated with ab256456 for 10 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



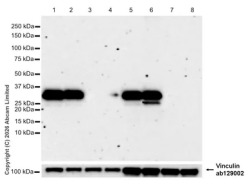
Immunohistochemistry (Frozen sections) - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Annexin-4/ANXA4 antibody

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized mouse kidney tissue labeling Annexin-4/ANXA4 with ab256456 at 1/100 dilution, followed by

ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (green). Positive staining on mouse kidney (PMID: 15145526) is observed. The nuclear counter stain is DAPI (blue). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256456).



Western blot - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] - BSA and Azide free (ab259999)

Annexin-4/ANXA4 Western blot staining using rabbit Anti-Annexin-4/ANXA4 antibody

This data was developed using ab256456, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, Anti-Vinculin antibody [EPR8185] - Loading Control (ab129002) staining at 1/5000 dilution.

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and Anxa4-KO homozygous mice (Strain ID: T015473).

All lanes:
Western blot - Anti-Annexin-4/ANXA4 antibody [EPR22929-208] (ab256456) at 1/1000 dilution

Lane 1:
Wild-type mouse pancreas tissue lysate (male case1) at 20 µg

Lane 2:
Wild-type mouse pancreas tissue lysate (male case2) at 20 µg

Lane 3:
Anxa4 knockout mouse pancreas tissue lysate (male case1) at 20 µg

Lane 4:
Anxa4 knockout mouse pancreas tissue lysate (male case2) at 20 µg

Lane 5:
Wild-type mouse kidney tissue lysate (male case1) at 20 µg

Lane 6:
Wild-type mouse kidney tissue lysate (male case2) at 20 µg

Lane 7:
Anxa4 knockout mouse kidney tissue lysate (male case1) at 20 µg

Lane 8:
Anxa4 knockout mouse kidney tissue lysate (male case2) at 20 µg

Secondary

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

Observed band size: 31 kDa, 123 kDa

Exposure time: 180s

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