abcam

ab324497

Anti-CLEC14A antibody [EPR30281-548]

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	EPR30281-548
Purification technique	Affinity purification Protein A
Concentration	0.498 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

mIHC

Tested

Species	Human
Dilution info	1/1000
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 CLEC14A

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.

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

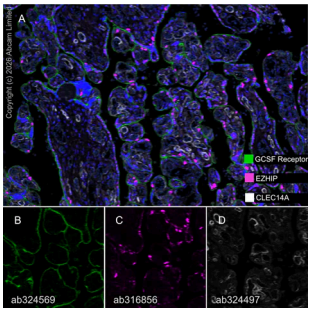
We do not recommend this combination. It is not covered by our product promise.

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.

11 product images



Multiplex immunohistochemistry - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Multiplex immunohistochemistry staining using rabbit Anti-CLEC14A antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human placenta tissue staining GCSF Receptor with ab324569 at a 1/100 dilution, ab316856 anti-EZHIP used at 1/500 dilution and ab324497 anti-CLEC14A used at a 1/1000 dilution.
Panel A: anti-GCSF Receptor (green; Opal™520), anti-EZHIP (magenta; Opal™690) and anti-CLEC14A (gray; Opal™570) on human placenta.

Panel B: anti-GCSF Receptor staining cytoplasm of trophoblast in human placenta.

Panel C: anti-EZHIP staining nucleus in human placenta.

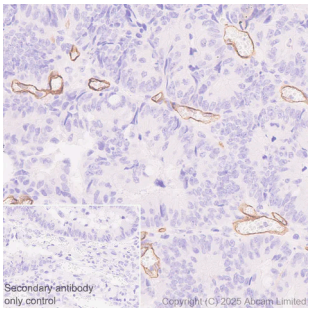
Panel D: anti-CLEC14A staining endothelium in human placenta.

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

The section was incubated in three rounds of staining: in the order of ab324569, ab316856 and ab324497 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 was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon carcinoma using rabbit Anti-CLEC14A antibody

Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling CLEC14A with ab324497 at 1/1000 (0.498 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

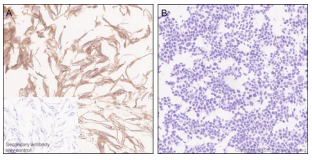
Positive staining on endothelial cells of human colon carcinoma.
The primary antibody was incubated for 30 mins at room temperature.

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-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CLEC14A antibody

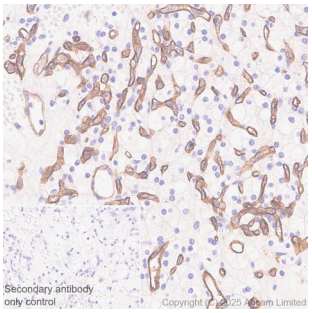
Immunohistochemical analysis of paraffin-embedded (A) HUVEC (human umbilical vein endothelial cell) cell pellet. (B) HEK-293 (human embryonic kidney epithelial cell) cell pellet. tissue labeling CLEC14A with ab324497 at 1/1000 (0.498 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) HUVEC cell pellet, no staining on (B) HEK-293 cell pellet.
The primary antibody was incubated 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-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human clear cell carcinoma of kidney using rabbit Anti-CLEC14A antibody

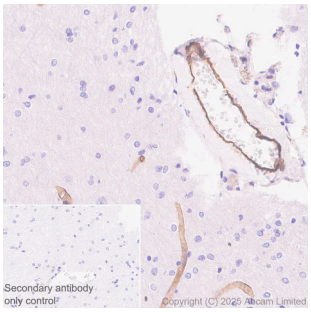
Immunohistochemical analysis of paraffin-embedded Human clear cell carcinoma of kidney tissue labeling CLEC14A with ab324497 at 1/1000 (0.498 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on endothelial cells of human clear cell carcinoma of kidney.
The primary antibody was incubated 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-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebrum using rabbit Anti-CLEC14A antibody

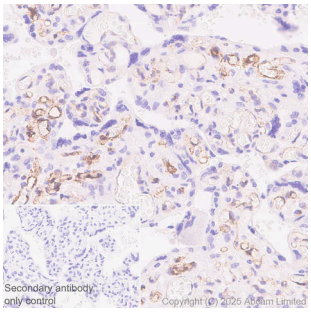
Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling CLEC14A with ab324497 at 1/1000 (0.498 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on endothelial cells of human cerebrum.
The primary antibody was incubated 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-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human placenta using rabbit Anti-CLEC14A antibody

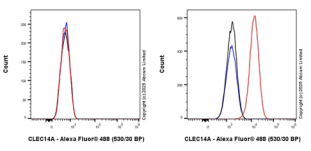
Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling CLEC14A with ab324497 at 1/1000 (0.498 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on endothelial cells of human placenta.
The primary antibody was incubated 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



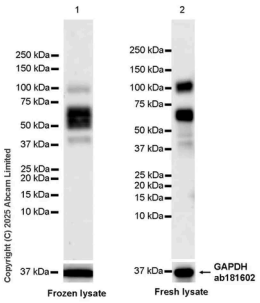
Flow Cytometry - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Flow Cytometry staining using rabbit Anti-CLEC14A antibody

Flow cytometric analysis of HEK-293 (human embryonic kidney epithelial cell, Left) / HUVEC (human umbilical vein endothelial cell, Right) cells labelling CLEC14A with ab324497 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Gated on viable cells.
Low expression: HEK-293.



Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Western blot staining using rabbit Anti-CLEC14A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In lane 1, the lysate was stored at -80☒ prior to Western Blotting. The bands beneath the target band (60 kDa) are likey to be degradation products. In lane 2, To minimize protein degradation, cell was lysed immediately after harvest and then applied to a gel and transfer membrane for Western blotting as soon as possible.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28671670).

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

All lanes:
Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497) at 1/1000 dilution

Lane 1:
HUVEC (human umbilical vein endothelial cell) whole cell lysate (Frozen lysate) at 20 µg

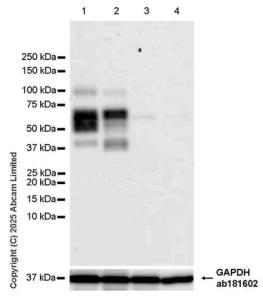
Lane 2:
HUVEC (human umbilical vein endothelial cell) whole cell lysate (Fresh lysate) at 20 µg

Secondary

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

Observed band size: 40-60 kDa, 36 kDa

Exposure time: 92s



Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Western blot staining using rabbit Anti-CLEC14A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Low expression: HEK-293, THP-1.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28671670).

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

All lanes:
Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497) at 1/1000 dilution

Lane 1:
HUVEC (human umbilical vein endothelial cell) whole cell lysate at 20 µg

Lane 2:
EA.hy926 (human somatic cell hybrid endothelial cell) whole cell lysate at 20 µg

Lane 3:
HEK-293 (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

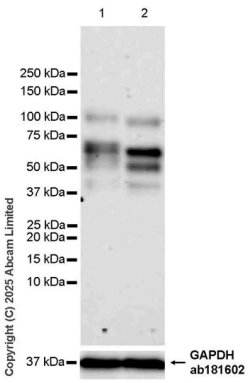
Lane 4:
THP-1 (human monocytic leukemia monocyte) whole cell lysate at 20 µg

Secondary

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

Observed band size: 40-60 kDa, 100 kDa, 36 kDa

Exposure time: 92s



Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Western blot staining using rabbit Anti-CLEC14A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

CLEC14A is a glycoprotein of approximately 40-60, 100 kDa and detected as a 35-50, 90 kDa band after treated with Peptide: N-glycosidase F (PNGase F).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28671670).

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

All lanes:
Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497) at 1/1000 dilution

Lane 1:
Untreated HUVEC whole cell lysate at 20 µg

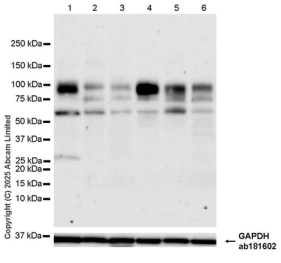
Lane 2:
HUVEC whole cell lysate treated with Peptide: N-glycosidase F (PNGase F) at 20 µg

Secondary

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

Observed band size: 40-60 kDa, 100 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497)

CLEC14A Western blot staining using rabbit Anti-CLEC14A antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28671670).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.
All lanes:
Western blot - Anti-CLEC14A antibody [EPR30281-548] (ab324497) at 1/1000 dilution

Lane 1:
Human hypothalamus tissue lysate at 20 µg

Lane 2:
Human testis tissue lysate at 20 µg

Lane 3:
Human colon tissue lysate at 20 µg

Lane 4:
Human small intestine tissue lysate at 20 µg

Lane 5:
Human pancreas tissue lysate at 20 µg

Lane 6:
Human spleen tissue lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 40-60 kDa, 100 kDa, 36 kDa

Exposure time: 180s

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