abcam

ab325339

Anti-LOX 1 antibody [EPR27185-134]

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	EPR27185-134
Purification technique	Affinity purification Protein A
Concentration	0.505 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	1/100
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	-

mIHC

Tested

Species	Human
Dilution info	1/100
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 OLR1

Function Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive

bacteria. (Microbial infection) May serve as a receptor for adhesin A variant 3 (nadA) of N.meningitidis.

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.

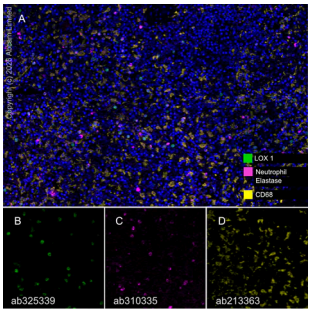
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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11 product images



Multiplex immunohistochemistry - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Multiplex immunohistochemistry staining of Human spleen using rabbit Anti-LOX 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human spleen tissue staining LOX 1 with ab325339 at a 1/100 (5.05 µg/ml) dilution, ab310335 anti-Neutrophil Elastase used at a 1/100 (5.20 µg/ml) dilution and ab213363 anti-CD68 used at a 1/500 (1.314 µg/ml) dilution.
Panel A: anti-LOX 1 (green; Opal™520), anti-Neutrophil Elastase (magenta; Opal™570), anti-CD68 (yellow; Opal™690) on human spleen.

Panel B: anti-LOX 1 staining neutrophils in human spleen.

Panel C: anti-Neutrophil Elastase staining neutrophils in human spleen.

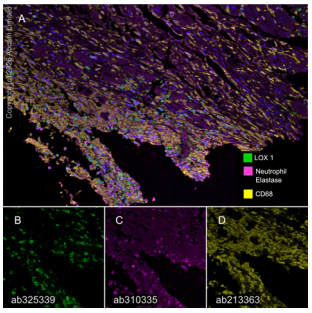
Panel D: anti-CD68 staining on macrophages in human spleen.

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

The section was incubated in three rounds of staining: in the order of ab325339, ab310335 and ab213363 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.



Multiplex immunohistochemistry - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Multiplex immunohistochemistry staining of Human heart atherosclerosis using rabbit Anti-LOX 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human heart atherosclerosis tissue staining LOX 1 with ab325339 at a 1/100 (5.05 µg/ml) dilution, ab310335 anti-Neutrophil Elastase used at a 1/100 (5.20 µg/ml) dilution and ab213363 anti-CD68 used at a 1/500 (1.314 µg/ml) dilution.
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Panel B: anti-LOX 1 staining neutrophils in human heart atherosclerosis.

Panel C: anti-Neutrophil Elastase staining neutrophils in human heart atherosclerosis.

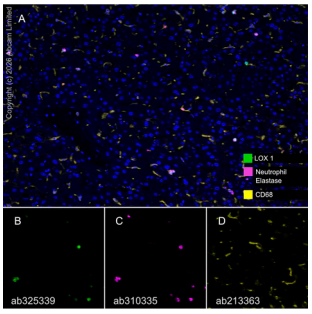
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Multiplex immunohistochemistry - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Multiplex immunohistochemistry staining of Human liver using rabbit Anti-LOX 1 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human liver tissue staining LOX 1 with ab325339 at a 1/100 (5.05 µg/ml) dilution, ab310335 anti-Neutrophil Elastase used at a 1/100 (5.20 µg/ml) dilution and ab213363 anti-CD68 used at a 1/500 (1.314 µg/ml) dilution.
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Panel B: anti-LOX 1 staining neutrophils in human liver.

Panel C: anti-Neutrophil Elastase staining neutrophils in human liver.

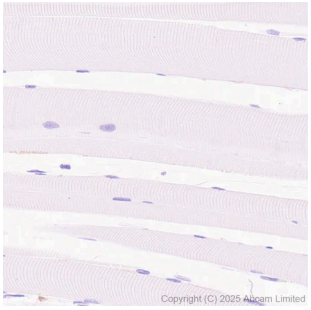
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Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: Weak staining on human skeletal muscle (HPA datasheet).

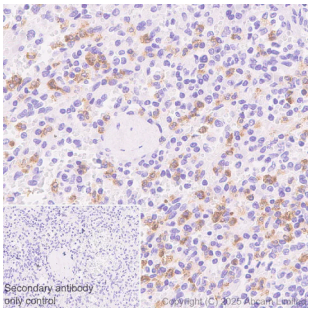
The primary antibody was incubated for 30 mins at room temperature.

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-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human spleen using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human spleen.

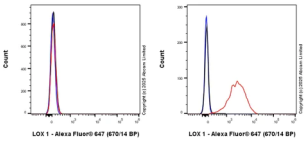
The primary antibody was incubated for 30 mins at room temperature.

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



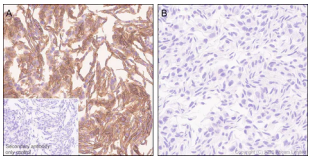
Flow Cytometry - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Flow Cytometry staining using rabbit Anti-LOX 1 antibody

Flow cytometric analysis of 786-O (human kidney epithelial cell, Left) DLD-1 (human colorectal adenocarcinoma epithelial cell, Right) cells labelling LOX 1 with ab325339 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)/ Blue.

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Negative control: 786-O.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded (A) DLD-1 (human colorectal adenocarcinoma epithelial cell) cell pellet and (B) 786-O (human kidney epithelial cell) cell pellet labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) DLD-1 cell pellet, no staining on (B) 786-O cell pellet.

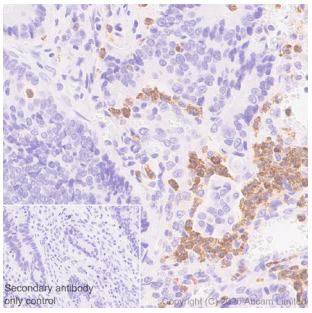
The primary antibody was incubated for 30 mins at room temperature.

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-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon carcinoma using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on immune cells in human colon carcinoma.

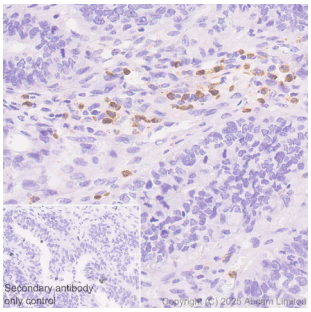
The primary antibody was incubated for 30 mins at room temperature.

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-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human ovarian carcinoma using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on immune cells in human ovarian carcinoma.

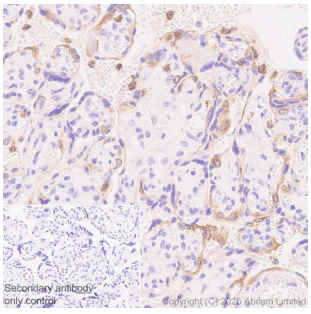
The primary antibody was incubated for 30 mins at room temperature.

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-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human placenta using rabbit Anti-LOX 1 antibody

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling LOX 1 with ab325339 at 1/100 (5.05 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human placenta (PMID: 18599643).

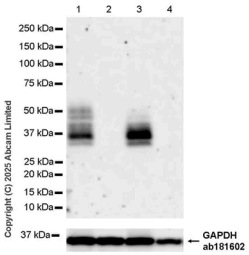
The primary antibody was incubated for 30 mins at room temperature.

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



Western blot - Anti-LOX 1 antibody [EPR27185-134] (ab325339)

LOX 1 Western blot staining using rabbit Anti-LOX 1 antibody

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

Negative control: 786-O.

Low expression: THP-1.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-LOX 1 antibody [EPR27185-134] (ab325339) at 1/1000 dilution

Lane 1:
DLD-1 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
786-O (human kidney epithelial cell) whole cell lysate at 20 µg

Lane 3:
HCT-15 (human colon 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 1/20000 dilution

Observed band size: 35-42 kDa, 36 kDa

Exposure time: 180s

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