abcam

ab325349

Anti-LOX 1 antibody [EPR27185-134] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation

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	EPR27185-134
Purification technique	Affinity purification Protein A
Concentration	1.036 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-

Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
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	-
Notes	-

mIHC

Tested

Species	Human
Dilution info	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab325349 is the carrier-free version of ab325339.

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.

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.

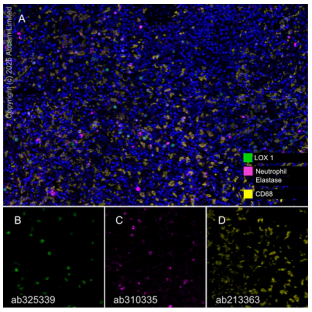
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.
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.

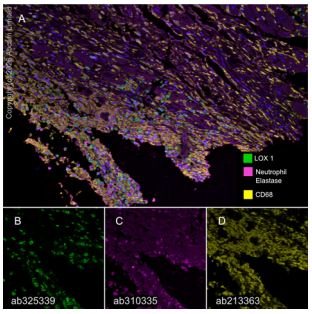
Panel D: anti-CD68 staining on macrophages in human spleen.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.
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.

Panel A: anti-LOX 1 (green; Opal™520), anti-Neutrophil Elastase (magenta; Opal™570), anti-CD68 (yellow; Opal™690) on human heart atherosclerosis.

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

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

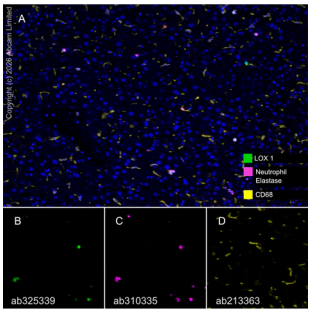
Panel D: anti-CD68 staining on macrophages in human heart atherosclerosis.

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.

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Multiplex immunohistochemistry - Anti-LOX 1 antibody [EPR27185-134] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.
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.

Panel A: anti-LOX 1 (green; Opal™520), anti-Neutrophil Elastase (magenta; Opal™570), anti-CD68 (yellow; Opal™690) on human liver.

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

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

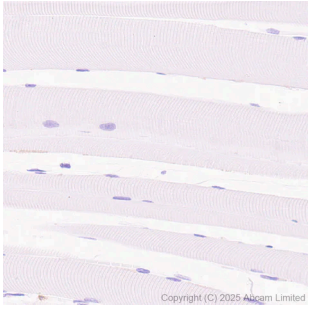
Panel D: anti-CD68 staining on macrophages in human liver.

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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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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).

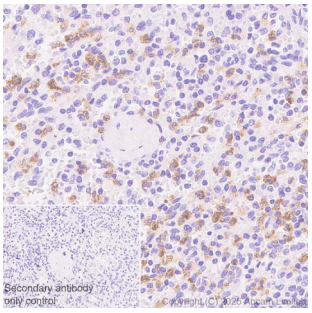
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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.

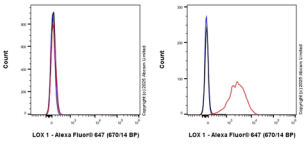
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

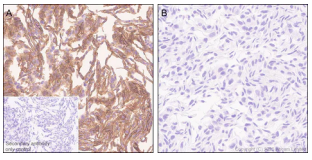
LOX 1 Flow Cytometry staining using rabbit Anti-LOX 1 antibody

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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.

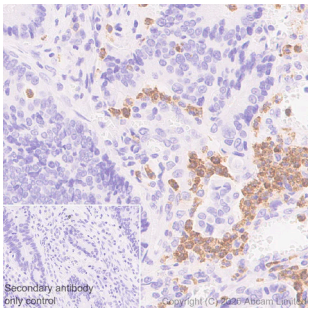
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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.

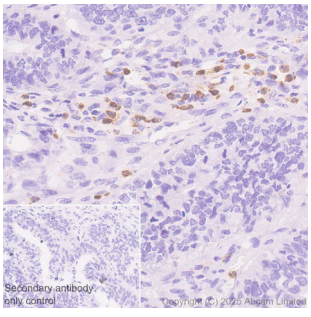
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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.

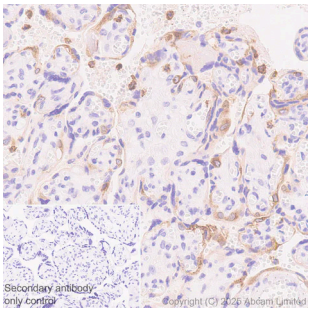
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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).

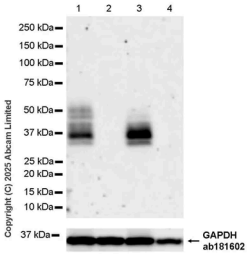
The primary antibody was incubated for 30 mins at room temperature.

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] - BSA and Azide free (ab325349)

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

This data was developed using ab325339, the same antibody clone in a different buffer formulation.

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'.