abcam

ab81709

Anti-LOX 1 antibody [23C11]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Constituents: PBS, 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human OLR1 aa 50 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link P78380
Clone number	23C11
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified and 0.2 µm filtered solution.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	10 µg/mL
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

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

ab81709 neutralizes the biological activity of LOX 1. It also inhibits Hsp70 binding to dendritic cells and Hsp70 induced antigen cross representation. *In vivo*, targeting LOX1 with a tumor antigen using anti LOX 1 antibody ab81709 induces anti tumor immunity.

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

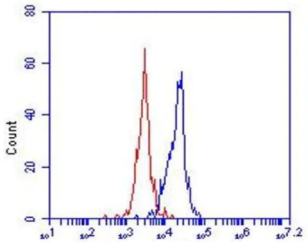
We do not recommend this combination. It is not covered by our product promise.

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.

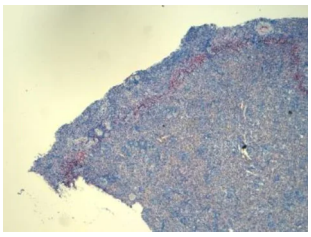
2 product images



Flow Cytometry - Anti-LOX 1 antibody [23C11] (ab81709)

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

ab81709 was conjugated to PE and used in flow cytometry with PBMC cells. The red line represents the isotype control and the blue line HM2138



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOX 1 antibody [23C11] (ab81709)

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

Immunohistochemical analysis of human LOX-1 with ab81709 (1:100) in paraffin embedded spleen tissue.

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