abcam

ab81710

FITC Anti-LOX 1 antibody [23C11]

Anti-LOX 1 antibody [23C11] conjugated to FITC - suitable for flow cytometry, FuncS, ICC/IF, and reacts with human samples. Clone [23C11] is a mouse monoclonal antibody cited in 5 publications.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 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, 0.2 µm filtered solution.

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	5 µL for 10^6 Cells
Notes	ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse
Dilution info	-
Notes	-

FuncS (Neut/Block)

Expected

Species	Human
Dilution info	-
Notes	Antibody totally prevented Hsp70 binding to LOX-1-CHO but not mock-transfected CHO cells.

Predicted

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
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

ab81710 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 tumour antigen using anti LOX 1 antibody ab81710 induces anti tumour 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

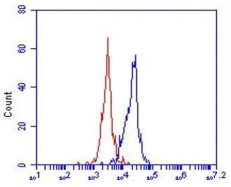
We do not recommend this combination. It is not covered by our product promise.

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.

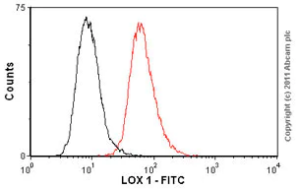
2 product images



Flow Cytometry - FITC Anti-LOX 1 antibody [23C11] (ab81710)

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

Flow cytometric analysis showing expression of LOX1 on human PBMC cells at 10 µg/mL concentration.



Flow Cytometry - FITC Anti-LOX 1 antibody [23C11] (ab81710)

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

Overlay histogram showing A549 cells stained with ab81710 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab81710, 0.5µg/1x10^6 cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 FITC (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.
Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

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