


### FITC Anti-LOX 1 antibody [23C11] ab81710

**3 References**   **画像数 2**

#### 製品の概要

製品名	FITC Anti-LOX 1 antibody [23C11]
製品の詳細	FITC Mouse monoclonal [23C11] to LOX 1
由来種	Mouse
標識	FITC. Ex: 493nm, Em: 528nm
アプリケーション	<b>適用あり:</b> ICC/IF, Flow Cyt, Functional Studies
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse 
免疫原	Recombinant fragment within Human LOX 1. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements.
ポジティブ・コントロール	Human APCs
特記事項	<p>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.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA

特記事項 (精製)	Purified, 0.2 µm filtered solution.
一次抗体 備考	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.
ポリ/モノ	モノクローナル
クローン名	23C11
アイソタイプ	IgG1

## アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab81710の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use 5µl for 10 <sup>6</sup> cells. <b>ab91356</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
Functional Studies		Use at an assay dependent concentration. Antibody totally prevented Hsp70 binding to LOX-1-CHO but not mock-transfected CHO cells.

## ターゲット情報

機能	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.
組織特異性	Expressed at high level in endothelial cells and vascular-rich organs such as placenta, lung, liver and brain, aortic intima, bone marrow, spinal cord and substantia nigra. Also expressed at the surface of dendritic cells. Widely expressed at intermediate and low level.
関連疾患	Note=Independent association genetic studies have implicated OLR1 gene variants in myocardial infarction susceptibility. Note=OLR1 may be involved in Alzheimer disease (AD). Involvement in AD is however unclear: according to some authors (PubMed:12354387, PubMed:12810610 and PubMed:15976314),

variations in OLR1 modify the risk of AD, while according to other (PubMed:15000751 and PubMed:15060104) they do not.

#### 配列類似性

Contains 1 C-type lectin domain.

#### ドメイン

The cytoplasmic region is required for subcellular sorting on the cell surface.  
The C-type lectin domain mediates the recognition and binding of oxLDL.

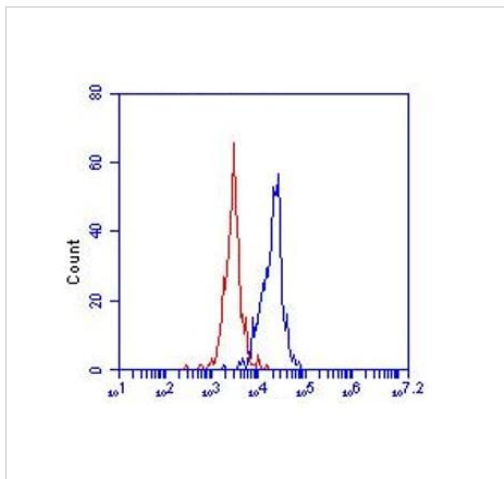
#### 翻訳後修飾

The intrachain disulfide-bonds prevent N-glycosylation at some sites.  
N-glycosylated.

#### 細胞内局在

Cell membrane. Secreted. A secreted form also exists.

#### 画像



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)

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

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<sup>6</sup> cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 FITC (1µg/1x10<sup>6</sup> 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.

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