

FITC Anti-LOX 1 antibody [23C11] ab81710

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概述

产品名称	FITC荧光Anti-LOX 1抗体[23C11]
描述	FITC荧光小鼠单克隆抗体[23C11] to LOX 1
宿主	Mouse
偶联物	FITC. Ex: 493nm, Em: 528nm
经测试应用	适用于: ICC/IF, Flow Cyt, Functional Studies
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Recombinant fragment within Human LOX 1 aa 50-300. 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 contact our Scientific Support team to discuss your requirements.
阳性对照	Human APCs
常规说明	<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&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA

纯化说明	Purified, 0.2 µm filtered solution.
Primary antibody说明	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.
克隆	单克隆
克隆编号	23C11
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab81710于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use 5µl for 10 ⁶ cells. ab91356 - 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.

靶标

功能	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.
组织特异性	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.
疾病相关	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.

序列相似性

Contains 1 C-type lectin domain.

结构域

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

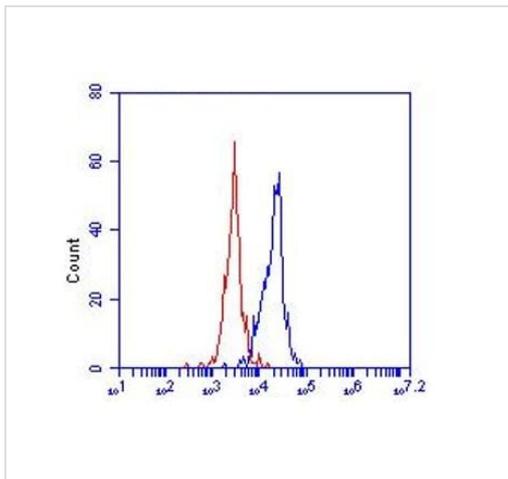
翻译后修饰

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

细胞定位

Cell membrane. Secreted. A secreted form also exists.

图片



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/1x10⁶ cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 FITC (1µg/1x10⁶ 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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