

anti-Human LOX1 Antibody | anti-LOX1 antibody

Anti-Hu LOX1 APC

CATALOG # AAA129207	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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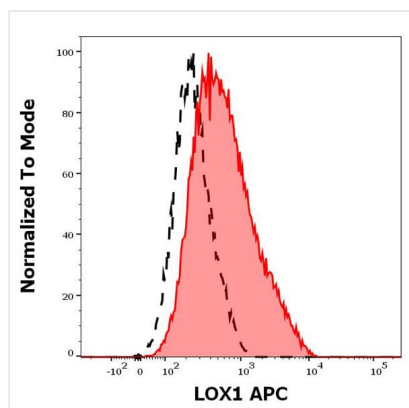
PRODUCT SYNONYMS

LOX1; Anti-Hu LOX1 APC; oxidized low density lipoprotein receptor 1; OLR1; SLOX1; SCARE1; CLEC8A; anti-LOX1 antibody

PRODUCT SPECIFICATIONS

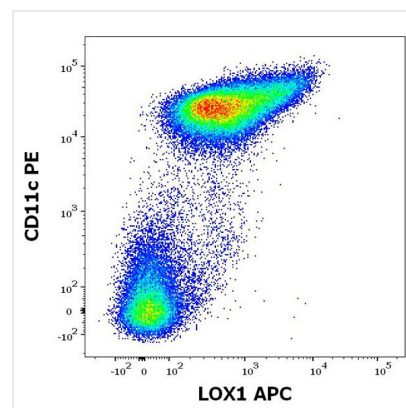
Reactivity	Human
Isotype	Mouse IgG2a kappa
Clone Number	15C4
Specificity	The mouse monoclonal antibody 15C4 recognizes an extracellular epitope of LOX1, a C-type lectin transmembrane protein.
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-LOX1 antibody	FCM/FACS (Flow Cytometry)
Immunogen	fusion protein of human LOX1 ectodomain and of human IgG Fc
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



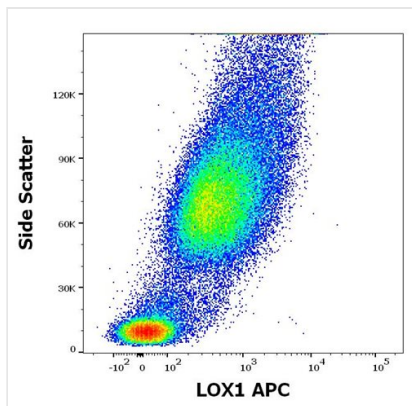
FCM/FACS (Flow Cytometry)

Separation of CD11c positive cells stained using anti-LOX1 (15C4) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood, red-filled) from CD11c positive cells stained using mouse IgG isotype control (MOPC-21) APC antibody (concentration in sample 1 μ g/ml, same as LOX APC antibody concentration, black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells.



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells using anti-LOX1 (15C4) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD11c (BU15) PE antibody (20 μ l reagent / 100 μ l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-LOX1 (15C4) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-LOX1 antibody	LOX1, a 31 kDa type II transmembrane protein, is a C-type lectin, functioning as a scavenger receptor for e.g. oxidized low density lipoprotein, apoptotic heat shock proteins, or CRP. It is expressed by macrophages, fibroblasts, platelets, endothelial cells, and smooth muscle cells, and its defects can lead to atherosclerosis. Its expression is enhanced under inflammatory conditions. Multiple splicing variants have been identified.
References	*Duluc D, Banchereau R, Gannevat J, Thompson-Snipes L, Blanck JP, Zurawski S, Zurawski G, Hong S, Urgell JR, Pascual V, Baldwin N, Stecher J, Carley M, Boreham M, Oh S: Transcriptional fingerprints of antigen-presenting cell subsets in the human vaginal mucosa and skin reflect tissue-specific immune microenvironments. <i>Genome Med.</i> 2014 Nov 25;6(11):98., URL: https://pubmed.ncbi.nlm.nih.gov/25520755/, *Cassetta L, Bruderek K, Skrzeczynska J, Osiecka O, Hu X, Rundgren IM, Lin A, Santegoets K, Horzum U, Godinho-Santos A, Zelinsky G, Garcia-Tellez T, Bjelica S, Taciak B, Kittang AO, Höing B, Lang S, Dixon M, Müller V, Utikal JS, Karakoç D, Yilmaz KB, Górka E, Bodnár L, Anastasiou OE, Bourgeois C, Ba?ura R, Kapinska-Mrowiecka M, Gotic M, Laan MT, Kers-Rebel E, Król M, Santibañez JF, Müller M, Dittmer U, de Sousa AE, Esenda?li G, Adema G, Loré K, Ersvær E, Umansky V, Pollard JW, Cichy J, Brandau S: Differential expansion of circulating human MDSC subsets in patients with cancer, infection and inflammation. <i>J Immunother Cancer.</i> 2020 Sep;8(2):e001223., URL: https://pubmed.ncbi.nlm.nih.gov/32907925/, *Joo H, Li D, Dullaers M, Kim TW, Duluc D, Upchurch K, Xue Y, Zurawski S, Le Grand R, Liu YJ, Kuroda M, Zurawski G, Oh S: C-type lectin-like receptor LOX-1 promotes dendritic cell-mediated class-switched B cell responses. <i>Immunity</i> 2014 Oct 16;41(4):592-604., URL: https://pubmed.ncbi.nlm.nih.gov/25308333/, *Bayik D, Zhou Y, Park C, Hong C, Vail D, Silver DJ, Lauko A, Roversi G, Watson DC, Lo A, Alban TJ, McGraw M, Sorensen M, Grabowski MM, Otvos B, Vogelbaum MA, Horbinski C, Kristensen BW, Khalil AM, Hwang TH, Ahluwalia MS, Cheng F, Lathia JD: Myeloid-derived suppressor cell subsets drive glioblastoma growth in a sex-specific manner. <i>Cancer Discov.</i> 2020 Aug;10(8):1210-1225., URL: https://pubmed.ncbi.nlm.nih.gov/32300059/, *Li D, Romain G, Flamar AL, Duluc D, Dullaers M, Li XH, Zurawski S, Bosquet N, Palucka AK, Le Grand R, O'Garra A, Zurawski G, Banchereau J, Oh S: Targeting self- and foreign antigens to dendritic cells via DC-ASGPR generates IL-10-producing suppressive CD4+ T cells. <i>J Exp Med.</i> 2012 Jan 16;209(1):109-21., URL: https://pubmed.ncbi.nlm.nih.gov/22213806/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505501
NCBI GeneID	4973
NCBI Accession #	NP_002534.1
NCBI GenBank Nucleotide #	NM_002543.3
UniProt Accession #	P78380; Q2PP00; Q7Z484; A8K7V9; B4DI48; G3V114
Molecular Weight	30,959 Da
NCBI Official Full Name	oxidized low-density lipoprotein receptor 1 isoform 1

NCBI Official Synonym Full Names	oxidized low density lipoprotein (lectin-like) receptor 1
NCBI Official Symbol	OLR1
NCBI Official Synonym Symbols	LOX1; LOXIN; SLOX1; CLEC8A; SCARE1
NCBI Protein Information	oxidized low-density lipoprotein receptor 1; hLOX-1; ox LDL receptor 1; lectin-type oxidized LDL receptor 1; scavenger receptor class E, member 1; C-type lectin domain family 8 member A; oxidized low-density lipoprotein receptor 1, soluble form
UniProt Protein Name	Oxidized low-density lipoprotein receptor 1
UniProt Gene Name	OLR1
UniProt Synonym Gene Names	CLEC8A; LOX1; Ox-LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1; hLOX-1
UniProt Entry Name	OLR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-antibody/lox1/129207>