



**DESCRIPTION**

<b>Target:</b>	OLR1
<b>Target aliases:</b>	CLEC8A, SCARE1, LOX-1, HLOX-1, LOX1, LOXIN, SLOX1
<b>Fc isotype:</b>	Mouse IgG2a
<b>Membrane proteome specificity:</b>	Monospecific for 6,000 membrane proteins tested
<b>Species reactivity:</b>	Human (others untested)
<b>Epitope:</b>	
<b>Fc modifications:</b>	C-terminal Avitag <sup>1</sup> , disabled Fc-γ receptor binding <sup>2</sup>
<b>Source:</b>	Recombinant CHO expression; purified by Protein A chromatography
<b>Formulation:</b>	Endotoxin Free PBS pH 7.4, sterile-filtered
<b>Concentration:</b>	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding to endogenously-expressed Fc-γ receptors on target cells.

**OLR1 TARGET INFORMATION**

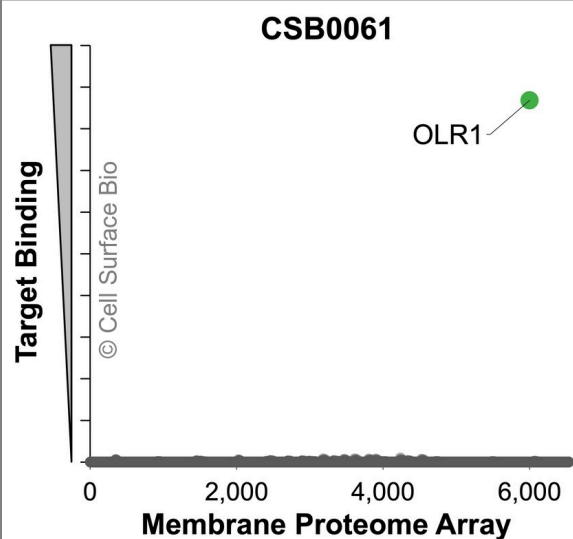
OLR1 is a single-pass transmembrane protein and low density lipoprotein receptor with a secreted form. OLR1 is part of the C-type lectin superfamily. OLR1 is responsible for binding, internalizing, and degrading oxidatively modified low density lipoprotein (oxLDL) and possibly regulates Fas-induced apoptosis. Mutations in OLR1 are associated with atherosclerosis and myocardial infarction risk and may be related to Alzheimer's disease risk. (NCBI Gene: 4973, UniProtKB/Swiss-Prot: P78380). Other names: CLEC8A, SCARE1, LOX-1, HLOX-1, LOX1, LOXIN, SLOX1

**SHIPPING AND STORAGE**

<b>Shipping:</b>	Shipped at ambient temperature. Store at 4°C.
<b>Stability &amp; Storage:</b>	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

**VALIDATION DATA**

**Membrane Proteome Specificity**



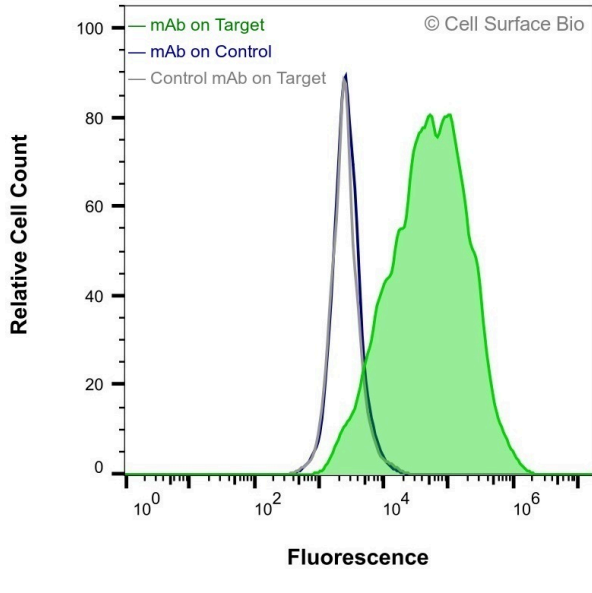
The specificity of OLR1 Monoclonal Antibody (CSB0061) was tested on the Membrane Proteome Array™ and shown to be specific for human OLR1.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

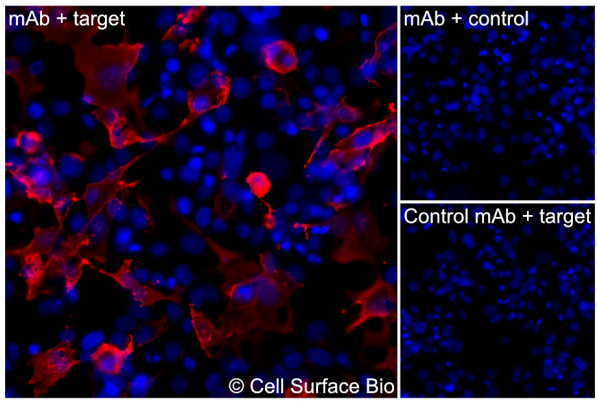
**Applications**  
Flow Cytometry, Extracellular

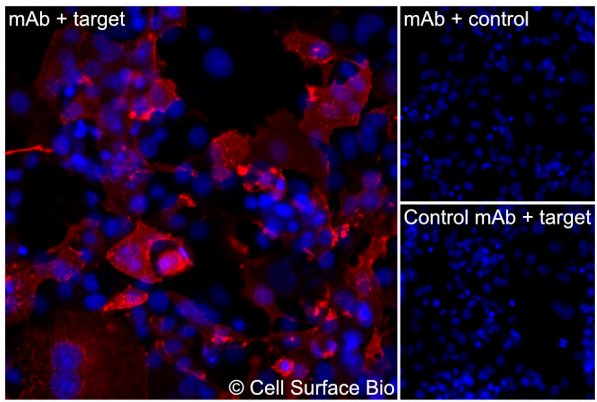
**Conditions**  
Live, Unpermeabilized

**Recommended concentration**  
1 µg/ml



HEK-293F cells transiently transfected with human OLR1 were stained with OLR1 Monoclonal Antibody (CSB0061)(green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with OLR1 Monoclonal Antibody (CSB0061)(blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml
		
<p>(A) COS-7 cells transiently transfected with human OLR1 were stained with OLR1 Monoclonal Antibody (CSB0061) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with OLR1 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human OLR1 and stained with control MAb.</p>		

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
		
<p>(A) COS-7 cells transiently transfected with human OLR1 were permeabilized and stained with OLR1 Monoclonal Antibody (CSB0061) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with OLR1 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human OLR1 and stained with control MAb.</p>		