TECHNICAL DATA SHEET

CD62L MAb

Catalog Number: CSB0223

DESCRIPTION

Target:	CD62L
Target aliases:	CD62L, LAM-1, LECAM1, LNHR, selectin L
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human, Greater Horseshoe Bat, Egyptian Fruit Bat , Pig (+/-)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag[1], disabled Fc-γ receptor binding[2]
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	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.

CD62L TARGET INFORMATION

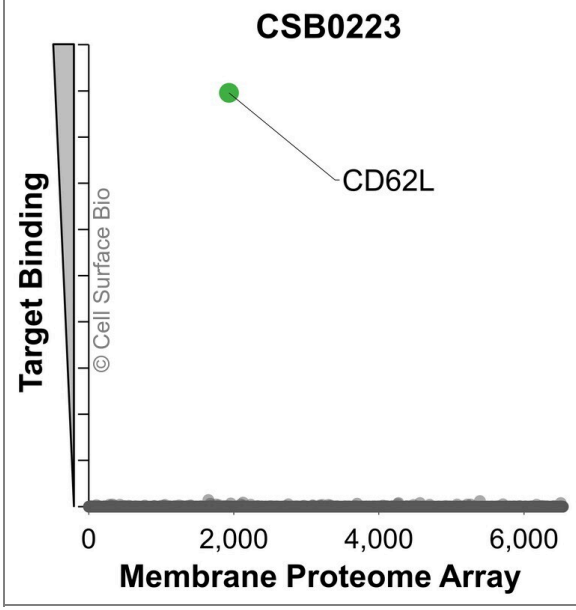
L-selectin (SELL) is a type I transmembrane glycoprotein and a member of the selectin family of cell adhesion molecules. It is expressed on most leukocytes, including naïve T cells, B cells, neutrophils, and monocytes, where it mediates leukocyte rolling and homing to secondary lymphoid tissues through binding to carbohydrate ligands on endothelial cells. CD62L is a marker for T cell activation/differentiation state. The extracellular region contains a C-type lectin domain, an epidermal growth factor-like domain, and a series of short consensus repeat units, while the cytoplasmic tail contributes to intracellular signaling and shedding regulation. Proteolytic cleavage of the extracellular domain regulates its surface expression and leukocyte trafficking. (NCBI Gene: 6402, UniProtKB/Swiss-Prot: P14151) Other names: CD62L, LAM-1, LECAM1, LNHR, selectin L

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	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 CD62L Monoclonal Antibody (CSB0223) was tested on the Membrane Proteome Array™ and shown to be specific for human CD62L.

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.

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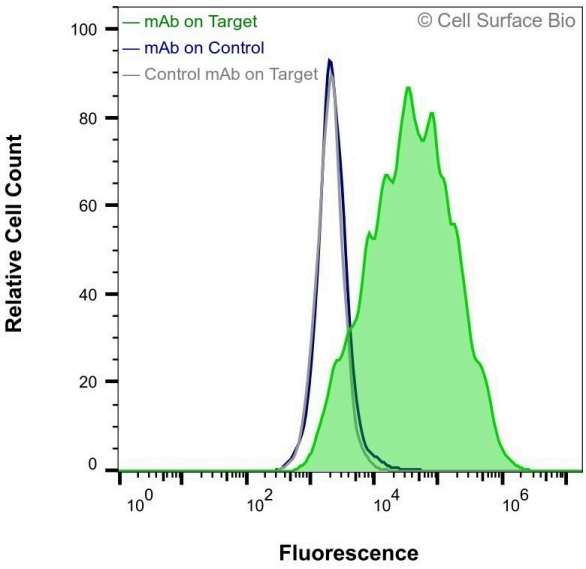
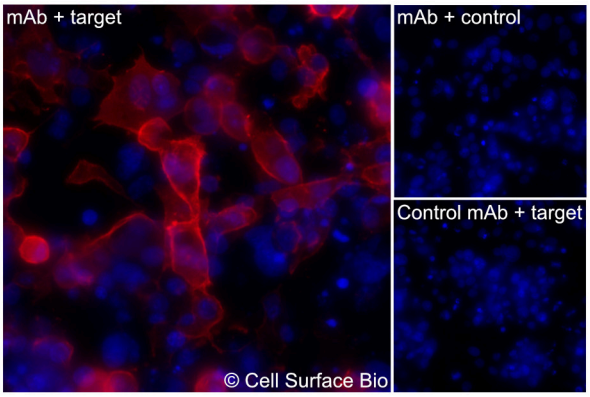
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



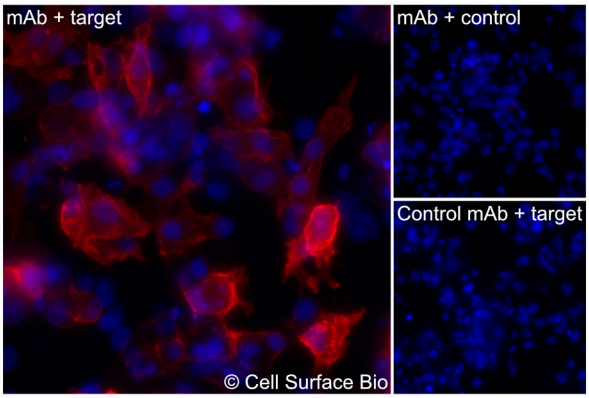
HEK-F cells transiently transfected with human CD62L were stained with CD62L Monoclonal Antibody (CSB0223) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-F cells transiently transfected with an empty control vector were also stained with CD62L Monoclonal Antibody (CSB0223) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



(Left) COS-7 cells transiently transfected human CD62L were stained with CD62L Monoclonal Antibody (CSB0223) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with CD62L Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with human CD62L and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(Left) COS-7 cells transiently transfected human CD62L were permeabilized and stained with CD62L Monoclonal Antibody (CSB0223) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with CD62L Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with human {{target} and stained with control MAb.