

DESCRIPTION

Target:	SLC3A2
Target aliases:	CD98HC, 4T2HC, NACAE, 4F2HC, CD98, MDU1, 4F2, 4F2hc
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
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.

SLC3A2 TARGET INFORMATION

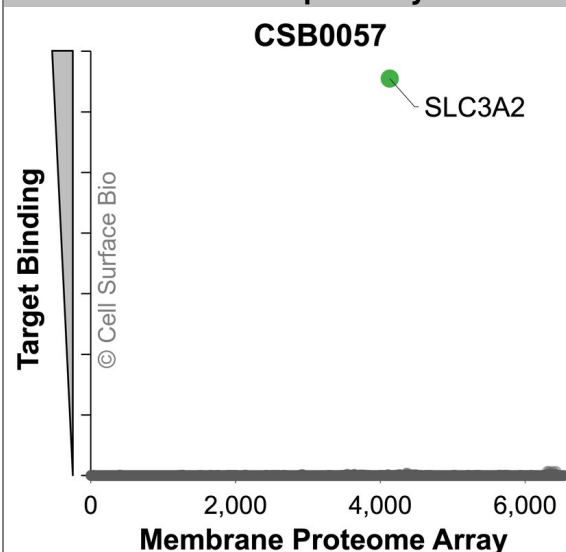
SLC3A2 is a single-pass transmembrane protein that is part of the solute carrier family. SLC3A2 forms a homodimer as well as heterodimers with several other proteins, including SLC7A6, SLC7A7, SLC7A5, and SLC7A8. The homodimer and heterodimers are amino acid transporters with differing substrates. SLC3A2 also regulates intracellular Ca²⁺ levels. The heterodimer with SLC7A5 facilitates viral entry of hepatitis C. (NCBI Gene: 6520, UniProtKB/Swiss-Prot: P08195) Other names: CD98HC, 4T2HC, NACAE, 4F2HC, CD98, MDU1, 4F2, 4F2hc

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

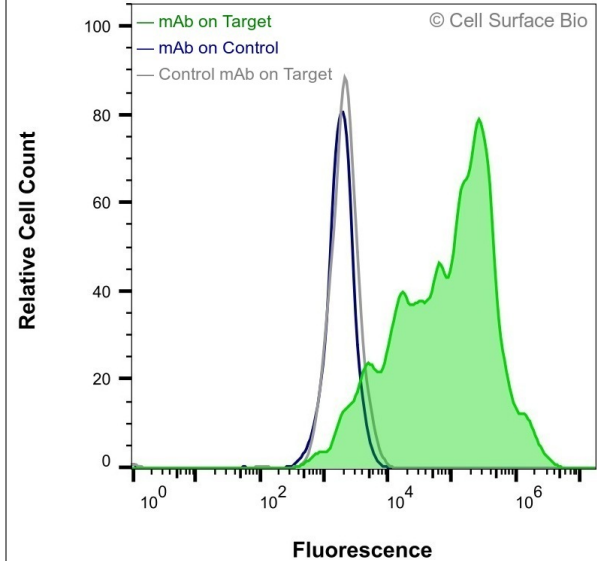
Membrane Proteome Specificity



The specificity of SLC3A2 Monoclonal Antibody (CSB0057) was tested on the Membrane Proteome Array™ and shown to be specific for SLC3A2.

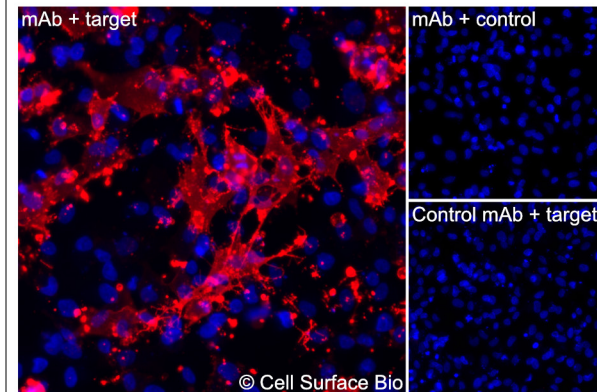
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



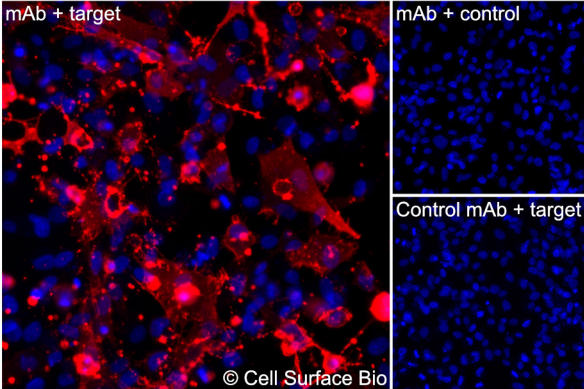
JS-1 cells transiently transfected with SLC3A2 were stained with SLC3A2 Monoclonal Antibody (CSB0057) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with SLC3A2 Monoclonal Antibody (CSB0057) (blue).

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



(Left) JS-1 cells transiently transfected SLC3A2 were stained with SLC3A2 Monoclonal Antibody (CSB0057) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with SLC3A2 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with SLC3A2 and stained with control MAb.

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



(Left) JS-1 cells transiently transfected SLC3A2 were permeabilized and stained with SLC3A2 Monoclonal Antibody (CSB0057) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with SLC3A2 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.