TECHNICAL DATA SHEET

SLC44A1 MAb

Catalog Number: CSB0249

DESCRIPTION

Target:	SLC44A1
Target aliases:	CD92, CDW92, CHTL1, CONATOC, CTL1
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human, Mouse, Cow
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.

SLC44A1 TARGET INFORMATION

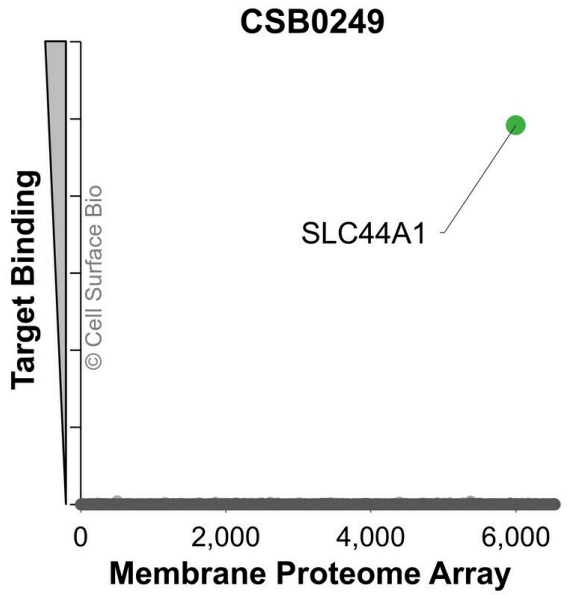
Choline transporter-like protein 1 (SLC44A1) is a member of the solute carrier family involved in choline transport across the plasma membrane, crucial for phospholipid biosynthesis and neurotransmitter acetylcholine production. Predominantly expressed in brain tissues, SLC44A1 plays a significant role in neural cell function and integrity. Its study is relevant for understanding neurological disorders and membrane transport mechanisms. (NCBI Gene: 23446, UniProtKB/Swiss-Prot: Q8WWI5) Other names: CD92, CDW92, CHTL1, CONATOC, CTL1

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 SLC44A1 Monoclonal Antibody (CSB0249) was tested on the Membrane Proteome Array™ and shown to be specific for human SLC44A1.

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.

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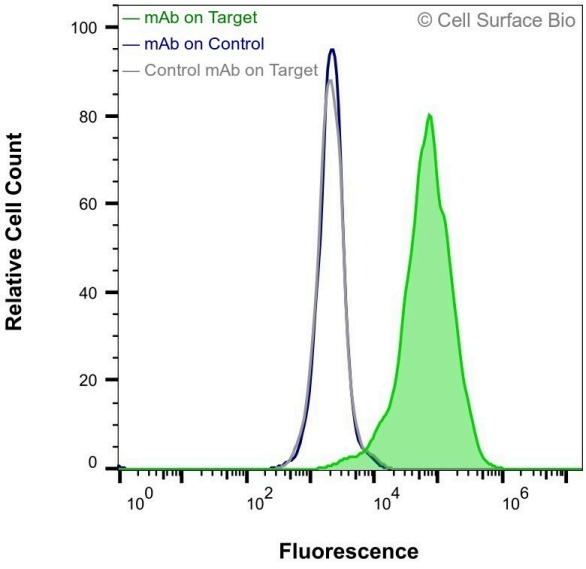
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



JS-1 cells transiently transfected with human SLC44A1 were stained with SLC44A1 Monoclonal Antibody (CSB0249) (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 SLC44A1 Monoclonal Antibody (CSB0249) (blue).