

Rabbit anti-Mouse CD98 Monoclonal Antibody | anti-SLC3A2 antibody

Recombinant Anti-CD98 Antibody, Rabbit Monoclonal

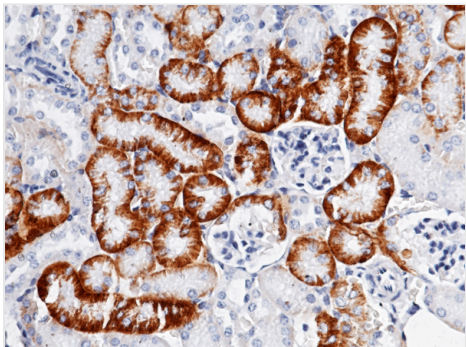
CATALOG # AAA257230	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

CD98; Monoclonal Antibody; Recombinant Anti-CD98 Antibody; Rabbit Monoclonal; SLC3A2/CD98 Antibody; Rabbit MAb; solute carrier family 3 (amino acid transporter heavy chain); member 2; Anti-4F2 Antibody; Anti-4F2HC Antibody; Anti-AI314110 Antibody; Anti-Cd98 Antibody; Anti-Ly-10 Antibody; Anti-Ly-m10 Antibody; Anti-Ly10 Antibody; Anti-Mdu1 Antibody; Anti-Mgp-2hc Antibody; Anti-NACAE Antibody; anti-SLC3A2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	048
Specificity	Mouse SLC3A2. No cross-reactivity in ELISA with Human SLC3A2
Purity/Purification	Protein A
Form/Format	0.2 ?m filtered solution in PBS
Applicable Applications for anti-SLC3A2 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Mouse SLC3A2 protein (Catalog#)
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse SLC3A2 (rM SLC3A2).
Preparation and Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.



IHC (Immunohistochemistry)
Immunochemical staining of mouse SLC3A2 in mouse kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to nephric tubule.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC3A2 antibody	4F2 cell-surface antigen heavy chain, also known as 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, CD98, SLC3A2 and MDU1, is a single-pass type I I membrane protein that belongs to the SLC3A transporter family. SLC3A2/MDU1 is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. During gestation, expression in the placenta is significantly stronger at full-term than at the mid-trimester stage. SLC3A2/MDU1 is expressed in HUVECS and at low levels in resting peripheral blood T-lymphocytes and quiescent fibroblasts. It is expressed in fetal liver and in the astrocytic process of primary astrocytic gliomas. SLC3A2/MDU1 is also expressed in retinal endothelial cells and in the intestinal epithelial cell line Caco2-BBE. SLC3A2/MDU1 is required for the function of light chain amino-acid transporters. It is involved in sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. SLC3A2/MDU1 is involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7, SLC3A2/MDU1 acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. SLC3A2/MDU1 plays a role in nitric oxide synthesis in human umbilical vein endothelial cells (HUVECs) via transport of L-arginine. It is required for normal and neoplastic cell growth. When associated with SLC7A5/LAT1, SLC3A2/MDU1 is also involved in the transport of L-DOPA across the blood-brain barrier, and that of thyroid hormones triiodothyronine (T3) and thyroxine (T4) across the cell membrane in tissues such as placenta.
References	Torrents D. et al., 1998, J Biol Chem. 273: 32437-45. Pfeiffer R. et al., 1999, EMBO J. 18: 49-57. Broeer A. et al., 2000, Biochem J. 349: 787-95. Yanagida O. et al., 2001, Biochim Biophys Acta. 1514: 291-302. Broeer A. et al., 2001, Biochem J. 355: 725-31. Fort J. et al., 2007, J Biol Chem. 282: 31444-52. Mayya V. et al., 2009, Sci Signal. 2: RA46-RA46.

NCBI AND UNIPROT INFORMATION

NCBI GI #	238637277
NCBI GeneID	17254
NCBI Accession #	NP_001154885.1
NCBI GenBank Nucleotide #	NM_001161413.1
UniProt Accession #	P10852; Q54AH5; G3UWA6
NCBI Official Full Name	4F2 cell-surface antigen heavy chain isoform a
NCBI Official Synonym Full Names	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
NCBI Official Symbol	Slc3a2
NCBI Official Synonym Symbols	4F2; Cd98; Ly10; Mdu1; 4F2HC; Ly-10; NACAE; Ly-m10; Mgp-2hc; AI314110

NCBI Protein Information	4F2 cell-surface antigen heavy chain; CD98 antigen; CD98 heavy chain; antigen identified by monoclonal antibodies 4F2; solute carrier family 3 member 2; type II transmembrane protein
UniProt Protein Name	4F2 cell-surface antigen heavy chain
UniProt Gene Name	Slc3a2
UniProt Synonym Gene Names	Mdu1; 4F2hc
UniProt Entry Name	4F2_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd98-antibody-clone-048-immunohistochemistry-elisa/257230>