

CD98 recombinant protein

Recombinant Human CD98 Protein

CATALOG #
AAA22125

HOST
HEK293 Cells

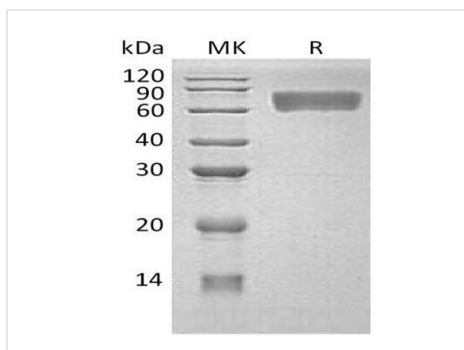
PRODUCT SYNONYMS

CD98; Recombinant Human CD98 Protein; 4F2 Cell-Surface Antigen Heavy Chain; 4F2hc; 4F2 Heavy Chain Antigen; Lymphocyte Activation Antigen 4F2 Large Subunit; SLC3A2; MDU1; CD98 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.
Sequence	Arg206-Ala 630
Sequence Length	631
Species	Human
Endotoxin	<1.0 EU per µg as determined by LAL test.
Tag	C-His
Bioactivity	Immobilized Human CD98-His at 2µg/ml (100 µl/well) can bind Anti-Human CD98 mAb. The ED50 of Anti-Human CD98 mAb is 6.50 ng/ml.
Reconstitution	We recommend centrifuging the vial before opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 degree C to -80 degree C. Reconstituted protein solution can be stored at 4 degree C to 8 degree C for 2 to 7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

IMAGES



SDS-PAGE

>95% as determined by reducing SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CD98 recombinant protein	Protein Construction: Recombinant Human CD98 is produced by our Mammalian expression system and the target gene encoding Arg206-Ala630 is expressed with a 6His tag at the C-terminus. Background: CD98 is a single-pass type I I membrane protein which 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. It consists of an 85 kDa glycosylated type II transmembrane heavy chain and a 40-50 kDa non-glycosylated light chain with 12 transmembrane segments. The heavy chain (SLC3A2) pairs with one of several light chains (SLC7A5, 6, 7, 8, 10, or 11) and is required for the cell surface expression and amino acid transport function of the light chains. It is involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. It also mediates integrin signaling, T cell costimulation, B cell proliferation, and viral fusion with cell membranes.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	61744477
NCBI GeneID	6520
NCBI Accession #	NP_001012680.1
NCBI GenBank Nucleotide #	NM_001012662.2
UniProt Accession #	P08195; Q13543
Molecular Weight	Calculated MW: 47.9 kDa Observed MW: 57-87 kDa
NCBI Official Full Name	4F2 cell-surface antigen heavy chain isoform b
NCBI Official Synonym Full Names	solute carrier family 3 member 2
NCBI Official Symbol	SLC3A2
NCBI Official Synonym Symbols	4F2; CD98; MDU1; 4F2HC; 4T2HC; NACAE; CD98HC
NCBI Protein Information	4F2 cell-surface antigen heavy chain
UniProt Protein Name	4F2 cell-surface antigen heavy chain
UniProt Gene Name	SLC3A2
UniProt Synonym Gene Names	MDU1; 4F2hc

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.