

ARG43270 anti-CD98 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD98	
Tested Reactivity	Hu, Ms, Rat	
Tested Application	IHC-P, WB	
Host	Rabbit	
Clonality	Polyclonal	
lsotype	lgG	
Target Name	CD98	
Species	Human	
Immunogen	Recombinant fusion protein corresponding to aa. 360-529 of Human CD98 (NP_001013269.1).	
Conjugation	Un-conjugated	
Alternate Names	MDU1; 4T2HC; CD98; 4F2hc; 4F2 cell-surface antigen heavy chain; CD98HC; 4F2HC; NACAE; Solute carrier family 3 member 2; CD antigen CD98; 4F2 heavy chain antigen; Lymphocyte activation antigen 4F2 large subunit; 4F2	

Application Instructions

Application table	Application	Dilution	
	IHC-P	1:50 - 1:200	
	WB	1:500 - 1:2000	
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.		
Positive Control	HeLa		
Observed Size	~ 80 - 93 kDa		

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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Gene Symbol	SLC3A2	
Gene Full Name	solute carrier family 3 (amino acid transporter heavy chain), member 2	
Background	This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. [provided by RefSeq, Nov 2010]	
Function	Component of several heterodimeric amino acid transporter complexes (PubMed:11557028, PubMed:9829974, PubMed:9751058, PubMed:10391915, PubMed:10574970, PubMed:11311135). Th precise substrate specificity depends on the other subunit in the heterodimer (PubMed:199829974, PubMed:9751058, PubMed:10391915, PubMed:10574970, PubMed:30867591, PubMed:10903140). The heterodimer with SLC3A2 functions as sodium-independent, high-affinity transporter that mediate uptake of large neutral amino acids such as phenylalanine, tyrosine, L-DOPA, leucine, histidine, methionine and tryptophan (PubMed:9751058, PubMed:11557028, PubMed:11311135, PubMed:11564694, PubMed:12117417, PubMed:12225859, PubMed:25998567, PubMed:30867591). The complexes with SLC7A6 and SLC7A7 mediate uptake of dibasic amino acids (PubMed:30867591). The complexes with SLC7A6 and SLC7A7 mediate uptake of dibasic amino acids (PubMed:30867591). The complexes with SLC7A6 and SLC7A7 mediate uptake of dibasic amino acids (PubMed:1557028, PubMed:10903140). The complexes function as amino acid exchangers (PubMed:1557028, PubMed:10903140, PubMed:30867591). Plays a role in nitric oxide synthesis in human umbilical vein endothelial cells (HUVECs) via transport of L-arginine. The heterodimer with SLC7A5/LAT1 may play a role in the transport across the blood-brain barrier (By similarity). May mediate blood-to- retina L-leucine transport across the blood-retinal barrier (By similarity). The heterodimer with SLC7A5/LAT1 can mediate the transport of thyroid hormones triiodothyronine (T3) and thyroxine (T4) across the cell membrane (PubMed:11564694, PubMed:12225859). When associated with SLC7A5 or SLC7A8, involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane (PubMed:1576744). The heterodimer with SLC7A5 is involved in the uptake of toxic methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes (PubMed:12117417). Together with ICAM1, regulate	
Calculated Mw	68 kDa	
РТМ	Phosphorylation on Ser-406; Ser-408 or Ser-410 and on Ser-527 or Ser-531 by ecto-protein kinases favors heterotypic cell-cell interactions. [UniProt]	
Cellular Localization	Apical cell membrane; Single-pass type II membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Localized to the plasma membrane when associated with SLC7A5 or SLC7A8. Localized to the placental apical membrane. Located selectively at cell-cell adhesion sites. Colocalized with SLC7A8/LAT2 at the basolateral membrane of kidney proximal tubules and small intestine epithelia. [UniProt]	



ARG43270 anti-CD98 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG43270 anti-CD98 antibody at 1:100 dilution.





ARG43270 anti-CD98 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human esophageal cancer tissue stained with ARG43270 anti-CD98 antibody at 1:100 dilution.

ARG43270 anti-CD98 antibody WB image

Western blot: 25 μg of HeLa cell lysate stained with ARG43270 anti-CD98 antibody at 1:1000 dilution.