Rabbit anti-Human CD98 Polyclonal Antibody | anti-CD98 antibody

CD98 Antibody, Rabbit PAb, Antigen Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258679	**Rabbit**	**Human**	**Immunoprecipitation, Immunohistochemistry, Western Blot**

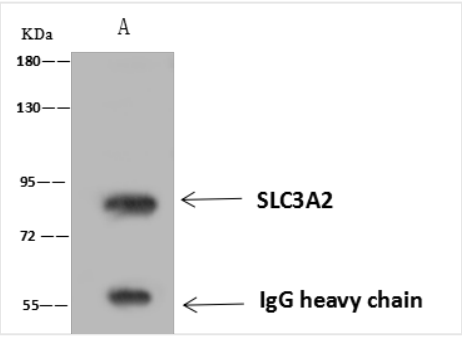
PRODUCT SYNONYMS

CD98; Polyclonal Antibody; CD98 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-4F2 Antibody; Anti-4F2HC Antibody; Anti-4T2HC Antibody; Anti-CD98 Antibody; Anti-CD98HC Antibody; Anti-MDU1 Antibody; Anti-NACAE Antibody; anti-CD98 antibody

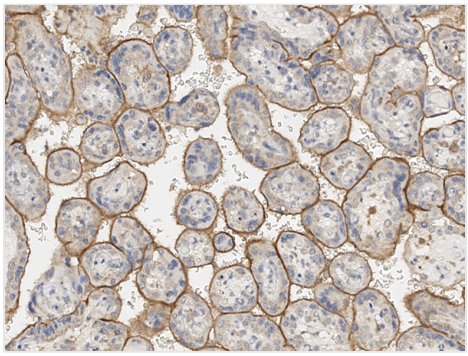
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	Human CD98
Applicable Applications for anti-CD98 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Preparation	Produced in rabbits immunized with E Coli-derived Human CD98 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -80 degree C. Avoid repeated freeze-thaw cycles.

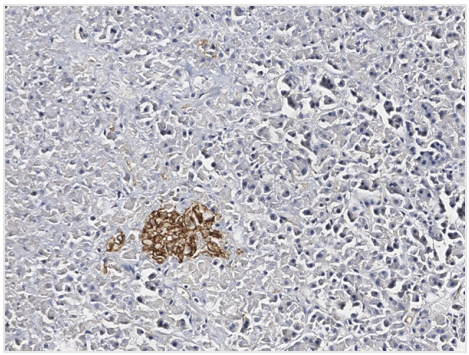
IMAGES



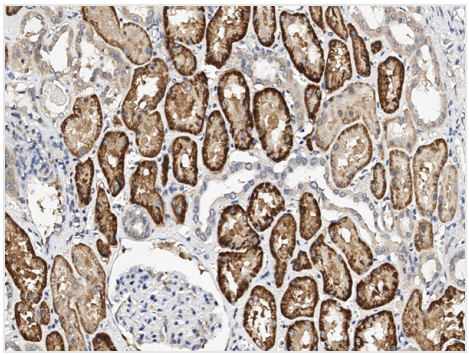
IP (Immunoprecipitation)
SLC3A2 was immunoprecipitated using:; Lane A:0.5 mg HepG2 Whole Cell Lysate; 4 uL anti-SLC3A2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G.; Primary antibody:; Anti-SLC3A2 rabbit polyclonal antibody,at 1:100 dilution; Secondary antibody:; Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution; Developed using the ECL technique.; Performed under reducing conditions.; Predicted band size: 68 kDa; Observed band size :80 kDa



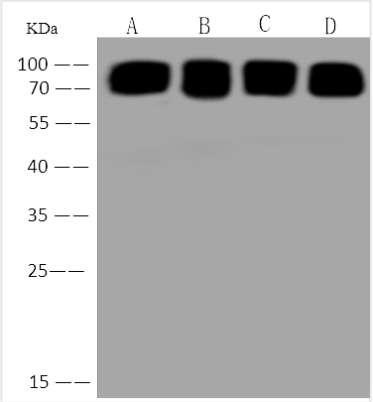
IP (Immunoprecipitation)
Immunochemical staining of human CD98 in human placenta with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemisry)
Immunochemical staining of human CD98 in human pancreas with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohiostchemistry)
Immunochemical staining of human CD98 in human kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)
Anti-CD98 rabbit polyclonal antibody at 1:500 dilution; Lane A: Hela Whole Cell Lysate; Lane B: HepG2 Whole Cell Lysate; Lane C: Raji Whole Cell Lysate; Lane D: Molt-4 Whole Cell Lysate; Lysates/proteins at 30 ug per lane.; Secondary; Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.; Developed using the ECL technique.; Performed under reducing conditions.; Predicted band size:68 kDa; Observed band size:80 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CD98 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.
Product Categories/Family for anti-CD98 antibody	cd antigen; Drug Targets; Cancer; Cardiovascular; Cancer Biomarker; CD molecules

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.