

Rabbit SLC7A5 / CD98 Polyclonal Antibody | anti-SLC7A5 antibody

Rabbit Polyclonal to Human SLC7A5 / CD98

CATALOG # AAA50665	HOST Rabbit	REACTIVITY HumanPredicted Reactivity: Monkey	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

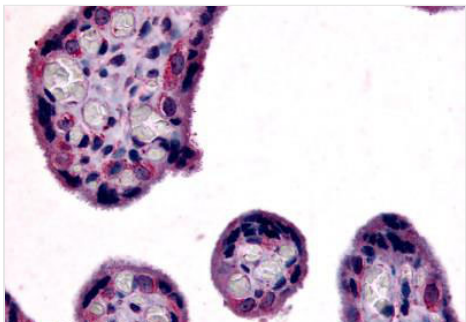
SLC7A5 / CD98; Polyclonal Antibody; Rabbit Polyclonal to Human SLC7A5 / CD98; Anti-SLC7A5 / CD98 Antibody (Internal) IHC-plus; SLC7A5; 4F2 LC; 4F2 light chain; 4F2LC; CD98; CD98 light chain; CD98LC; D16S469E; Integral membrane protein E16; Membrane protein E16; MPE16; LAT1; E16; HLAT1; TA1; Human SLC7A5; anti-SLC7A5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Monkey
Clonality	Polyclonal
Specificity	Human SLC7A5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	507
Applicable Applications for anti-SLC7A5 antibody	IHC (Immunohistochemistry)
Target	SLC7A5 / CD98 Light Chain
Family/Subfamily	Transporter / Cationic amino acid transporter
Epitope	Internal
Immunogen Species	Human
Immunogen	SLC7A5 / CD98 Light Chain antibody was raised against synthetic 15 amino acid peptide from internal region of human SLC7A5. Percent identity with other species by BLAST analysis: Human, Gibbon (100%); Gorilla, Monkey (93%); Mouse, Rat, Dog, Bat, Panda (80%).
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip Preparation and Storage
	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Anti-SLC7A5 antibody IHC of human placenta, terminal villi. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC7A5 antibody	Solute carrier family 7 member 5 (SLC7A5) is also known as large neutral amino acids transporter small subunit 1. It acts as an amino acid exchanger and is 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. It plays a role in neuronal cell proliferation (neurogenesis) in brain and acts as the major transporter of tyrosine in fibroblasts.
Product Categories/Family for anti-SLC7A5 antibody	Family: Transporter ; Subfamily: Cationic amino acid transporter

NCBI AND UNIPROT INFORMATION

NCBI GI #	71979932
NCBI GeneID	8140
NCBI Accession #	NP_003477.4
NCBI GenBank Nucleotide #	NM_003486.5
UniProt Accession #	Q01650 ; Q8IV97 ; Q9UBN8 ; Q9UP15 ; Q9UQC0
Molecular Weight	55,010 Da
NCBI Official Full Name	large neutral amino acids transporter small subunit 1
NCBI Official Synonym Full Names	solute carrier family 7 (amino acid transporter light chain, L system), member 5
NCBI Official Symbol	SLC7A5
NCBI Official Synonym Symbols	E16; CD98; LAT1; 4F2LC; MPE16; hLAT1; D16S469E
NCBI Protein Information	large neutral amino acids transporter small subunit 1; 4F2 LC; 4F2 light chain; CD98 light chain; integral membrane protein E16; L-type amino acid transporter 1; solute carrier family 7 member 5; large neutral amino acids transporter 1; y+ system cationic amino acid transporter; sodium-independent neutral amino acid transporter LAT1; solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
UniProt Protein Name	Large neutral amino acids transporter small subunit 1
UniProt Gene Name	SLC7A5
UniProt Synonym Gene Names	CD98LC; LAT1; MPE16; 4F2 LC; 4F2LC; hLAT1
UniProt Entry Name	LAT1_HUMAN

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/polyclonal/slc7a5-cd98-antibody-immunohistochemistry-elisa/50665>