

Rabbit SLC1A4 Polyclonal Antibody | anti-SLC1A4 antibody

SLC1A4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326905	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SLC1A4; Polyclonal Antibody; SLC1A4 Antibody; Alanine/serine/cysteine/threonine transporter 1; ASCT-1; ASCT1; AW045657; Glutamate/neutral amino acid transporter; Neutral amino acid transporter A; OTTHUMP00000159933; OTTHUMP00000235138; SATT; SATT_HUMAN; Solute carrier family 1 (glutamate/neutral amino acid transporter); member 4; Solute carrier family 1 member 4; anti-SLC1A4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SLC1A4 antibody detects endogenous levels of total SLC1A4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	234
Applicable Applications for anti-SLC1A4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human SLC1A4
Subcellular Location	Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Specificity	Expressed mostly in brain, muscle, and pancreas but detected in all tissues examined.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of HepG2, using SLC1A4antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326905 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC1A4 antibody

Description: SLC1A4, also known as ASCT1, is a neutral amino acid transporter. Its other name, ASCT1, was given because it mediates obligatory exchange of alanine, serine, cysteine, and threonine (1). SLC1A4 mediates the efflux of glutamate from the neuron into the synaptic junction via calcium-independent release, as well as mediating the efflux of L-serine from glial cells and its uptake by neurons (2). SLC1A4-mediated transport is shown to involve a symmetrical potassium-independent electroneutral exchange of neutral amino acids and sodium, such that the current activated during transport is carried only by chloride ions (3).
Function: Transporter for alanine, serine, cysteine, and threonine. Exhibits sodium dependence.
Similarity: Belongs to the dicarboxylate/amino acid:cation symporter (DAACS) (TC 2.A.23) family. SLC1A4 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	301601644
NCBI GeneID	6509
NCBI Accession #	NP_001180422.1
NCBI GenBank Nucleotide #	NM_001193493.1
UniProt Accession #	P43007; B7Z3C0; D6W5F0
Molecular Weight	Observed: 56 kDa Predicted: 56 kDa
NCBI Official Full Name	neutral amino acid transporter A isoform 2
NCBI Official Synonym Full Names	solute carrier family 1 member 4
NCBI Official Symbol	SLC1A4
NCBI Official Synonym Symbols	SATT; ASCT1; SPM
NCBI Protein Information	neutral amino acid transporter A
UniProt Protein Name	Neutral amino acid transporter A
UniProt Gene Name	SLC1A4
UniProt Synonym Gene Names	ASCT1; SATT; ASCT-1

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/slc1a4-antibody-immunohistochemistry-western-blot-elisa/326905>