

Rabbit SLC1A5 Polyclonal Antibody | anti-SLC1A5 antibody

SLC1A5 Antibody

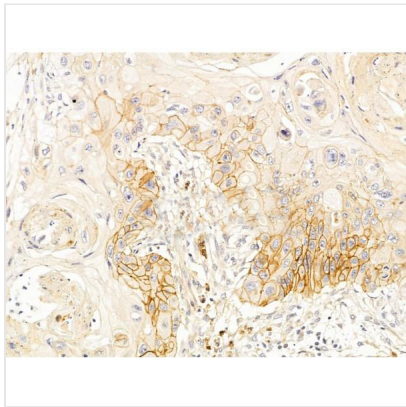
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31259	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(88%), Horse(88%), Sheep(88%), Rabbit(88%), Dog(100%)	ELISA

PRODUCT SYNONYMS

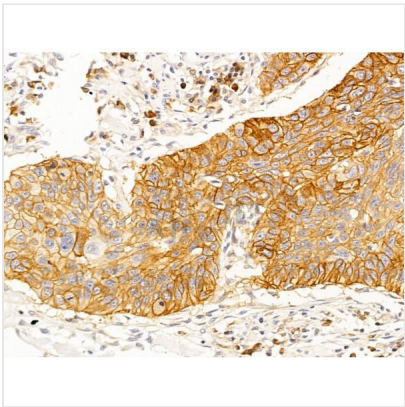
SLC1A5; Polyclonal Antibody; SLC1A5 Antibody; ASCT2; AAAT; AAAT_HUMAN; ATB(0); ATBO; Baboon M7 virus receptor; FLJ31068; M7V1; M7VS1; Neutral amino acid transporter B(0); R16; RD114/simian type D retrovirus receptor; RDR; RDRC; Sodium dependent neutral amino acid transporter type 2; Sodium-dependent neutral amino acid transporter type 2; Solute carrier family 1 (neutral amino acid transporter); member 5; Solute carrier family 1 member 5; anti-SLC1A5 antibody

PRODUCT SPECIFICATIONS

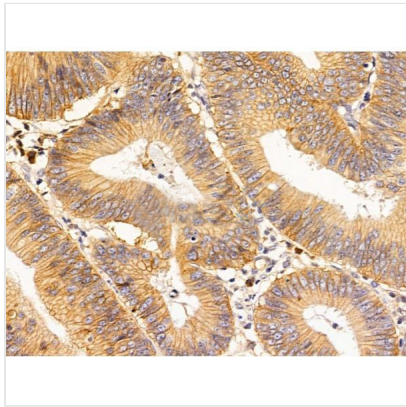
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(88%), Horse(88%), Sheep(88%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SLC1A5 Antibody detects endogenous levels of total SLC1A5.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	541
Applicable Applications for anti-SLC1A5 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human SLC1A5, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



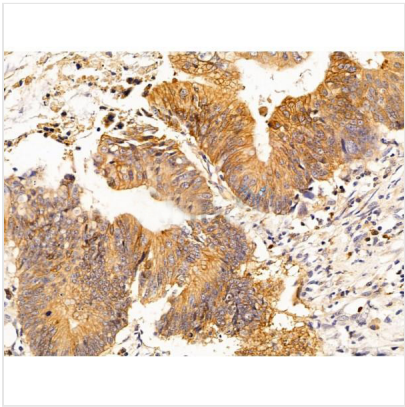
IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



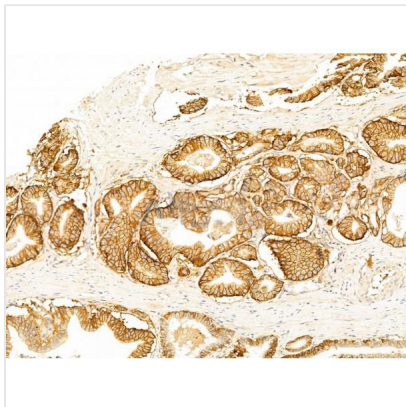
IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



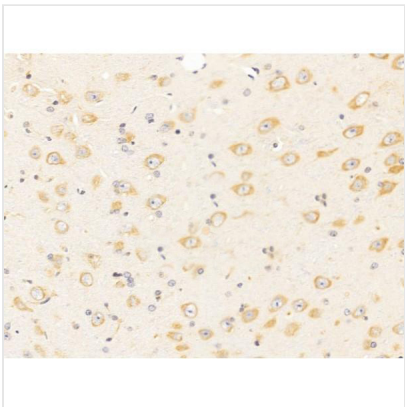
IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Human colorectal cancer 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 primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Human colorectal cancer 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 primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31259 at 1/100 staining Mouse brain 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 primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC1A5 antibody	Function: Sodium-dependent amino acids transporter that has a broad substrate specificity, with a preference for zwitterionic amino acids. It accepts as substrates all neutral amino acids, including glutamine, asparagine, and branched-chain and aromatic amino acids, and excludes methylated, anionic, and cationic amino acids (PubMed:8702519, PubMed:29872227). Through binding of the fusogenic protein syncytin-1/ERVW-1 may mediate trophoblasts syncytialization, the spontaneous fusion of their plasma membranes, an essential process in placental development (PubMed:10708449, PubMed:23492904).(Microbial infection) Acts as a cell surface receptor for Feline endogenous virus RD114.(Microbial infection) Acts as a cell surface receptor for Baboon M7 endogenous virus.(Microbial infection) Acts as a cell surface receptor for type D simian retroviruses. Subcellular Location: Cell membrane>Multi-pass membrane protein. Melanosome. Note: Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Tissue Specificity: Placenta, lung, skeletal muscle, kidney, pancreas, and intestine. Subunit Structure: Homotrimer (Probable) (PubMed:29872227). Interacts with ERVH48-1/suppressyn; may negatively regulate syncytialization (PubMed:23492904). Similarity: Belongs to the dicarboxylate/amino acid:cation symporter (DAACS) (TC 2.A.23) family. SLC1A5 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5032093
NCBI GeneID	6510
NCBI Accession #	NP_005619.1
NCBI GenBank Nucleotide #	NP_005619.1
UniProt Accession #	Q15758
Molecular Weight	Observed Molecular Weight: (Observed)56kD, 45kD. Predicted Molecular Weight: (Calculated)57kDa.
NCBI Official Full Name	neutral amino acid transporter B(0) isoform 1
NCBI Official Synonym Full Names	solute carrier family 1 member 5
NCBI Official Symbol	SLC1A5
NCBI Official Synonym Symbols	R16; AAAT; ATBO; M7V1; RDRC; ASCT2; M7VS1
NCBI Protein Information	neutral amino acid transporter B(0)
UniProt Protein Name	Neutral amino acid transporter B(0)
UniProt Gene Name	SLC1A5
UniProt Synonym Gene Names	ASCT2; M7V1; RDR; RDRC; ATB(0)
UniProt Entry Name	AAAT_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.