

Rabbit SLC1A3 / GLAST Polyclonal Antibody | anti-SLC1A3 antibody

Rabbit Polyclonal to Human SLC1A3 / GLAST

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52150	Rabbit	Human, Monkey, Mouse, Rat, Bovine, Hamster, Horse, Pig, Rabbit(Predicted: Dog, Guinea Pig, Chicken)	Immunohistochemistry

PRODUCT SYNONYMS

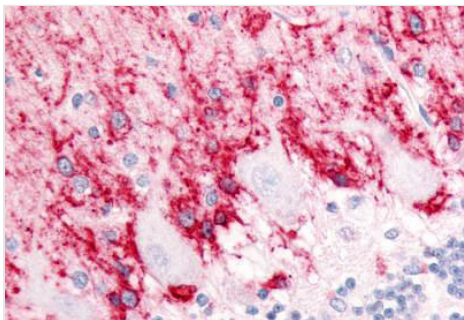
SLC1A3 / GLAST; Polyclonal Antibody; Rabbit Polyclonal to Human SLC1A3 / GLAST; Anti-SLC1A3 / GLAST Antibody (Cytoplasmic Domain) IHC-plus; SLC1A3; EA6; EAAT-1; EAAT1; GLAST; GLAST1; GLAST-1; Human SLC1A3; anti-SLC1A3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat, Bovine, Hamster, Horse, Pig, Rabbit (Predicted: Dog, Guinea Pig, Chicken)
Clonality	Polyclonal
Specificity	Human SLC1A3 / GLAST. 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	0.6mg/ml (varies by lot)
Sequence Length	542
Applicable Applications for anti-SLC1A3 antibody	IHC (Immunohistochemistry)
Target	SLC1A3 / EAAT1
Family/Subfamily	Transporter / Sodium:dicarboxylate symporter
Immunogen Species	SLC1A3 / EAAT1 was raised against Human
Antigen Type	Synthetic Peptide
Immunogen	SLC1A3 / EAAT1 antibody was raised against synthetic 19 amino acid peptide from cytoplasmic domain of human SLC1A3 / GLAST. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Bovine, Horse, Rabbit, Pig (100%); Panda, Dog, Opossum, Guinea Pig, Turkey, Chicken (95%); Xenopus (84%).
Epitope	Cytoplasmic Domain
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 one month. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Anti-SLC1A3 / GLAST antibody IHC of human brain, cerebellum, molecular layer and Purkinje layer. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC1A3 antibody	Slc1A3 is a member of a family of high-affinity sodium-dependent transporters that regulate the concentration of glutamate and aspartate in the excitatory synapses of the mammalian central nervous system.
Product Categories/Family for anti-SLC1A3 antibody	Family: Transporter ; Subfamily: Sodium:dicarboxylate symporter

NCBI AND UNIPROT INFORMATION

NCBI GI #	169790839
NCBI GeneID	6507
NCBI Accession #	NP_004163.3
NCBI GenBank Nucleotide #	NM_004172.4
UniProt Accession #	P43003 ; Q4JQC8 ; B2R5T3
NCBI Official Full Name	excitatory amino acid transporter 1 isoform 1
NCBI Official Synonym Full Names	solute carrier family 1 (glial high affinity glutamate transporter), member 3
NCBI Official Symbol	SLC1A3
NCBI Official Synonym Symbols	EA6; EAAT1; GLAST; GLAST1
NCBI Protein Information	excitatory amino acid transporter 1; GLAST-1; solute carrier family 1 member 3; sodium-dependent glutamate/aspartate transporter 1
UniProt Protein Name	Excitatory amino acid transporter 1
UniProt Gene Name	SLC1A3
UniProt Synonym Gene Names	EAAT1; GLAST; GLAST1; GLAST-1
UniProt Entry Name	EAA1_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://www.aaabiotech.com/polyclonal/slc1a3-glast-antibody-immunohistochemistry-elisa/52150>