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Slc1a4 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12329

Product Information

Application	WB
Primary Accession	O35874
Other Accession	NM_018861, NP_061349
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse
Predicted	Human, Mouse, Rat, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56062

Additional Information

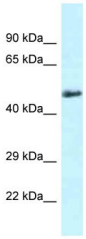
Gene ID	55963
Alias Symbol	ASCT1, AW045657, SATT, ASCT-1
Other Names	Neutral amino acid transporter A, Alanine/serine/cysteine/threonine transporter 1, ASCT-1, SATT, Solute carrier family 1 member 4, Slc1a4, Asct1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Slc1a4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Slc1a4 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Slc1a4 {ECO:0000303|PubMed:30185558, ECO:0000312|MGI:MGI:2135601}
Function	Sodium-coupled antiporter of neutral amino acids. In a tri- substrate transport cycle, exchanges neutral amino acids between the extracellular and intracellular compartments, coupled to the inward cotransport of at least one sodium ion (By similarity) (PubMed:30185558). Exchanges neutral amino acids such as L- and D- serine, L-threonine, L-asparagine and L-alanine in a bidirectional way (By similarity) (PubMed:30185558). Involved in homeostasis of D-serine, a coagonist of synaptic NMDA receptors. In astrocytes at excitatory synapses, mediates electrogenic D-serine influx coupled to L-serine efflux and L-serine shuttling to neurons for de novo D-serine synthesis (PubMed:30185558, PubMed:37238689). Displays sodium- and amino acid-

	dependent but uncoupled channel-like anion conductance with a preference SCN(-) > NO3(-) > I(-) > Cl(-) (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P43007}; Multi-pass membrane protein. Melanosome membrane {ECO:0000250|UniProtKB:P43007}; Multi-pass membrane protein. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. {ECO:0000250|UniProtKB:P43007}
Tissue Location	Astrocyte (at protein level).

Images



WB Suggested Anti-Slc1a4 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.