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SLC38A8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12688c

Product Information

Application	WB, E
Primary Accession	A6NNN8
Other Accession	NP_001073911.1
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31554
Calculated MW	46731
Antigen Region	149-177

Additional Information

Gene ID	146167
Other Names	Putative sodium-coupled neutral amino acid transporter 8, Solute carrier family 38 member 8, SLC38A8
Target/Specificity	This SLC38A8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-177 amino acids from the Central region of human SLC38A8.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC38A8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC38A8 {ECO:0000250|UniProtKB:Q5HZH7, ECO:0000312|HGNC:HGNC:32434}
Function	Electrogenic sodium-dependent amino acid transporter with a preference

	for L-glutamine, L-alanine, L-histidine, L-aspartate and L- arginine. May facilitate glutamine uptake in both excitatory and inhibitory neurons. The transport mechanism and stoichiometry remain to be elucidated.
Cellular Location	Membrane {ECO:0000250|UniProtKB:Q5HZH7}; Multi- pass membrane protein. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q5HZH7}. Cell projection, axon {ECO:0000250|UniProtKB:Q5HZH7}
Tissue Location	Expressed in fetal and adult brain, and spinal cord. In the brain, it is localized in the cell body and axon of the majority of neuronal cells and in a subset of glial cells. Found throughout the neuronal retina, with higher expression levels in the inner and outer plexiform layers and the photoreceptor layer. Very weak expression is also present in the kidneys, thymus, and testes

Background

SLC38A8 is a putative sodium-dependent amino acid/proton antiporter (By similarity).

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Venter, J.C., et al. Science 291(5507):1304-1351(2001)

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