

SLC36A2 Rabbit pAb

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Catalog # AP57957

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q495M3
Reactivity	Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53216
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC36A2
Epitope Specificity	261-360/483
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein. Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a pH-dependent proton-coupled amino acid transporter that belongs to the amino acid auxin permease 1 protein family. The encoded protein primarily transports small amino acids such as glycine, alanine and proline. Mutations in this gene are associated with iminoglycinuria and hyperglycinuria. [provided by RefSeq, Sep 2010]

Additional Information

Gene ID	153201
Other Names	Proton-coupled amino acid transporter 2, Proton/amino acid transporter 2, Solute carrier family 36 member 2 {ECO:0000312 HGNC:HGNC:18762}, Transmembrane domain rich protein 1, Tramdorin-1, SLC36A2 (HGNC:18762)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

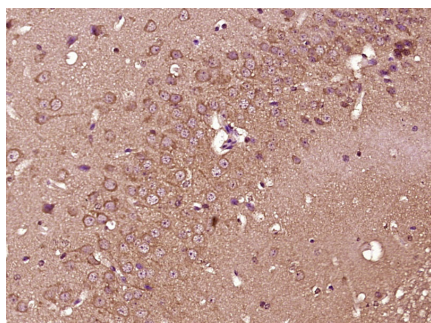
Name	SLC36A2 (HGNC:18762)
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Function	Electrogenic proton/amino acid symporter with a high selectivity for the small side chains amino acids glycine, alanine and proline, where both L- and D-enantiomers are transported. Extension of the backbone length, as in beta-alanine and 4-aminobutanoate or methylation of the amino group, as in sarcosine and N,N- dimethylglycine, are also tolerated but decrease transport efficiency. A free carboxyl group is preferred.
Cellular Location	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q8BHK3}. Recycling endosome membrane {ECO:0000250 UniProtKB:Q8BHK3}
Tissue Location	Abundantly expressed in kidney and muscle. Expressed in the S1 segment of the proximal tubule close to the glomerulus.

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC36A2) Polyclonal Antibody, Unconjugated (AP57957) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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