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SLC36A1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57956

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	Q7Z2H8
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53076
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC36A1
Epitope Specificity	101-200/476
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. Lysosome membrane.
SIMILARITY	Belongs to the amino acid/polyamine transporter 2 family.
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 member of the eukaryote-specific amino acid/auxin permease (AAAP) 1 transporter family. The encoded protein functions as a proton-dependent, small amino acid transporter. This gene is clustered with related family members on chromosome 5q33.1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Additional Information

Gene ID	206358
Other Names	Proton-coupled amino acid transporter 1, Proton/amino acid transporter 1, hPAT1, Solute carrier family 36 member 1, SLC36A1, PAT1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	SLC36A1 (HGNC:18761)
Function	Electrogenic proton/amino acid symporter with selectivity for small apolar L-amino acids, their D-enantiomers and selected amino acid derivatives such as 4-aminobutanoate/GABA (PubMed:12527723, PubMed:12809675, PubMed:19549785). May be involved in the efflux from the lysosomal compartment of neutral amino acids resulting from proteolysis (By similarity). May play a role in specifying sites for exocytosis in neurons (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi- pass membrane protein. Note=In neurons, colocalizes with the exocyst complex in the axonal processes {ECO:0000250|UniProtKB:Q924A5}