10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC30A5 Rabbit pAb

SLC30A5 Rabbit pAb
Catalog # AP57950

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8TAD4
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84047
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC30A5
Epitope Specificity	611-710/765
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Golgi apparatus > trans-Golgi network membrane. Perimeter of granules, localizes to the brush border membrane of the enterocyte. Concentrated in early compartments of the secretory pathway such as COPII-coated vesicles.
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 SLC30A/ZnT family of zinc transporter proteins. ZnT proteins mediate both cellular zinc efflux and zinc sequestration into membrane-bound organelles. The encoded protein plays a role in the early secretory pathway as a heterodimer with zinc transporter 6, and may also regulate zinc sequestration into secretory granules of pancreatic beta cells. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 19. [provided by RefSeq, Oct 2011]

Additional Information

Gene ID	64924
Other Names	Proton-coupled zinc antiporter SLC30A5, Solute carrier family 30 member 5 {ECO:0000312|HGNC:HGNC:19089}, Zinc transporter 5, ZnT-5, ZnT-like transporter 1, hZTL1, SLC30A5 (HGNC:19089)
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.

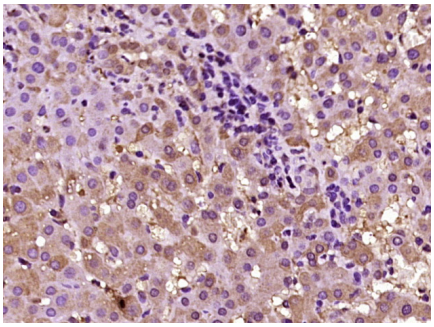
Protein Information

Name	SLC30A5 (HGNC:19089)
Function	Together with SLC30A6 forms a functional proton-coupled zinc ion antiporter mediating zinc entry into the lumen of organelles along the secretory pathway (PubMed:11904301, PubMed:15525635, PubMed:15994300, PubMed:19366695, PubMed:22529353). By contributing to zinc ion homeostasis within the early secretory pathway, regulates the activation and folding of enzymes like alkaline phosphatases and enzymes involved in phosphatidylinositol glycan anchor biosynthesis (PubMed:15525635, PubMed:15994300, PubMed:16636052, PubMed:35525268). Through the transport of zinc into secretory granules of pancreatic beta-cells, plays an important role in the storage and secretion of insulin (PubMed:11904301).
Cellular Location	Golgi apparatus, Golgi stack membrane; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Lateral cell membrane {ECO:0000250|UniProtKB:Q8R4H9}; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q8R4H9}. Note=Enriched in early compartments of the secretory pathway including COPII-coated vesicles and the Golgi cis cisterna.
Tissue Location	Ubiquitously expressed (PubMed:11904301, PubMed:12095919). Highly expressed in pancreas, liver and kidney (PubMed:11904301). Expressed abundantly in insulin-containing beta cells, undetectable in other endocrine cell types including glucagon- secreting alpha cells and most acinar cells (at protein level) (PubMed:11904301).

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Paraformaldehyde-fixed, paraffin embedded (human liver tissue); 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 (SLC30A5) Polyclonal Antibody, Unconjugated (AP57950) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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