

SLC30A3 Rabbit pAb

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Catalog # AP59070

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99726
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41945
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC30A3/ZNT3
Epitope Specificity	21-120/388
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein (Probable).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc, an essential element required for cell proliferation and differentiation, plays a role in a diverse array of cellular functions, including acting as a cofactor for numerous enzymes and transcription factors and as a neuroregulator. The zinc transporter (ZnT) family regulates the supply of zinc within cells, and its members are characterized by containing six membrane-spanning domains, a large histidine-rich intracellular loop, and a C-terminal tail. ZnT-3 mediates the uptake of zinc into vesicles in brain and testis.

Additional Information

Gene ID	7781
Other Names	Probable proton-coupled zinc antiporter SLC30A3, Solute carrier family 30 member 3 {ECO:0000312 HGNC:HGNC:11014}, Zinc transporter 3, ZnT-3, SLC30A3 (HGNC:11014)
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.

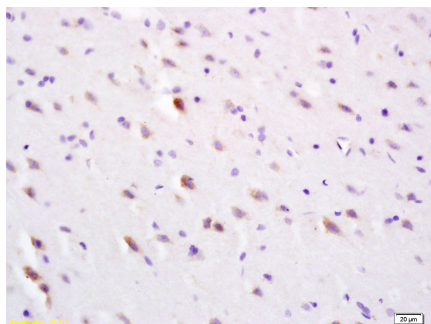
Protein Information

Name	SLC30A3 (HGNC:11014)
Function	Probable proton-coupled zinc ion antiporter mediating the import of zinc from cytoplasm into synaptic vesicles and participating to cellular zinc ion homeostasis in the brain.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Synapse, synaptosome {ECO:0000250 UniProtKB:P97441}. Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi- pass membrane protein

Background

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Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-SLC30A3 Polyclonal Antibody, Unconjugated(AP59070) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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