

SLC30A4 Rabbit pAb

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Catalog # AP57949

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O14863
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47483
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC30A4
Epitope Specificity	1-100/429
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Endosome membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases (e.g., MIM 114852), alkaline phosphatases (e.g., MIM 171760), various dehydrogenases, and superoxide dismutases (e.g., MIM 147450). SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop (Huang and Gitschier, 1997 [PubMed 9354792]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	7782
Other Names	Probable proton-coupled zinc antiporter SLC30A4, Solute carrier family 30 member 4 {ECO:0000312 HGNC:HGNC:11015}, Zinc transporter 4, ZnT-4, SLC30A4 (HGNC:11015)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	SLC30A4 (HGNC:11015)
Function	Probable proton-coupled zinc ion antiporter mediating zinc import from cytoplasm potentially into the endocytic compartment (PubMed: 19521526). Controls zinc deposition in milk (By similarity).
Cellular Location	Endosome membrane {ECO:0000250 UniProtKB:O55174}; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Cytoplasm {ECO:0000250 UniProtKB:O35149}. Note=Enriched in vesicles within the basal region of epithelial cells. {ECO:0000250 UniProtKB:O55174}

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