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ZNT6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56251

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6NXT4
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51116
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZNT6
Epitope Specificity	301-400/461
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	Golgi apparatus > trans-Golgi network membrane. Found in vesicules.
SIMILARITY	Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal ion. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A6, permit cellular efflux of zinc (Seve et al., 2004 [PubMed 15154973]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	55676
Other Names	Zinc transporter 6, ZnT-6, Solute carrier family 30 member 6, SLC30A6, ZNT6
Target/Specificity	Expressed in brain; especially in cerebellum, hippocampus, parahippocampal gyrus, superior and middle temporal gyrus. Also expressed in B cells, colon, eye, and lung. Lower expression was present in bone, brain, cervix, ear, heart, kidney, muscle, nerve, pancreas, prostate, skin, stomach, and testis.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	SLC30A6 (HGNC:19305)
Function	Has probably no intrinsic transporter activity but together with SLC30A5 forms a functional zinc ion:proton antiporter heterodimer, mediating zinc entry into the lumen of organelles along the secretory pathway (PubMed:15994300, PubMed:19366695, PubMed:19759014). As part of that zinc ion:proton antiporter, contributes to zinc ion homeostasis within the early secretory pathway and regulates the activation and folding of enzymes like alkaline phosphatases and enzymes involved in phosphatidylinositol glycan anchor biosynthesis (PubMed:15994300, PubMed:19759014, PubMed:35525268).
Cellular Location	Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein
Tissue Location	Expressed in brain; especially in cerebellum, hippocampus, parahippocampal gyrus, superior and middle temporal gyrus Also expressed in B-cells, colon, eye, and lung. Lower expression was present in bone, brain, cervix, ear, heart, kidney, muscle, nerve, pancreas, prostate, skin, stomach, and testis