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ZNT8 Rabbit pAb

Catalog # AP97977

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IWU4
Other Accession	Q8IWU4
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40755
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZNT8
Epitope Specificity	1-100/369
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily.
SUBUNIT	Homodimer (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ZNT8 is a zinc efflux transporter involved in the accumulation of zinc in intracellular vesicles. This gene is expressed at a high level only in the pancreas, particularly in islets of Langerhans. The encoded protein colocalizes with insulin in the secretory pathway granules of the insulin-secreting INS-1 cells. Allelic variants of this gene exist that confer susceptibility to diabetes mellitus, noninsulin-dependent (NIDDM). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010].

Additional Information

Gene ID	169026
Other Names	ZNT8; ZnT-8; ZNT8_HUMAN; SLC30A8; Solute carrier family 30 member 8; Zinc transporter 8 (ZnT-8); solute carrier family 30 (zinc transporter), member 8; Zinc transporter 8
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	SLC30A8 (HGNC:20303)
Function	Proton-coupled zinc ion antiporter mediating the entry of zinc into the lumen of pancreatic beta cell secretory granules, thereby regulating insulin secretion.
Cellular Location	Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Associated with insulin and glucagon secretory granules.
Tissue Location	In the endocrine pancreas, expressed in insulin- producing beta cells. Expressed at relatively high levels in subcutaneous fat tissue from lean persons; much lower levels in visceral fat, whether from lean or obese individuals, and in subcutaneous fat tissue from obese individuals. Expressed in peripheral blood mononuclear cells, including T-cells and B-cells, with great variation among individuals ranging from negative to strongly positive

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