

Immunotag™ ZnT-8 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4990
Product Description	Immunotag™ ZnT-8 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	ZnT-8
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC30A8. AA range:171-220
Specificity	ZnT-8 Polyclonal Antibody detects endogenous levels of ZnT-8 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SLC30A8
Accession No.	Q8IWU4 Q8BGG0
Alternate Names	SLC30A8; ZNT8; Zinc transporter 8; ZnT-8; Solute carrier family 30 member 8

Antibody Specification

Description	solute carrier family 30 member 8(SLC30A8) Homo sapiens The protein encoded by this gene 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],
Protein Expression	Amygdala,Brain,Lung,Pancreas,
Subcellular Localization	cell,Golgi apparatus,plasma membrane,integral component of membrane,cytoplasmic, membrane-bounded vesicle,secretory granule,transport vesicle membrane,secretory granule membrane,cytoplasmic vesicle,
Protein Function	domain:Contains a histidine-rich region, HXXXXXHNH-motif, which is a ligand for zinc.,function:Facilitates the accumulation of zinc from the cytoplasm into intracellular vesicles, being a zinc-efflux transporter. May be a major component for providing zinc to insulin maturation and/or storage processes in insulin-secreting pancreatic beta-cells.,polymorphism:Variant Trp-325 is a risk factor that confers susceptibility to diabetes mellitus, noninsulin-dependent (NIDDM) [MIM:125853].,similarity:Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily.,subcellular location:Strictly associated with the insulin granule secretory.,tissue specificity:Strictly restricted to the pancreas islets cells. Found in insulin-producing beta cells and colocalized with insulin.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.