

Immunotag™ ZnT-4 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4989
Product Description	Immunotag™ ZnT-4 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-4
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from ZnT-4, at AA range: 40-120
Specificity	ZnT-4 Polyclonal Antibody detects endogenous levels of ZnT-4 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	SLC30A4
Accession No.	O14863 O35149 O55174
Alternate Names	SLC30A4; ZNT4; Zinc transporter 4; ZnT-4; Solute carrier family 30 member 4

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Description	solute carrier family 30 member 4(SLC30A4) Homo sapiens 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],
Protein Expression	Fetal brain,Malignant prostate,Mesangial cell,Testis,
Subcellular Localization	cytoplasm,lysosomal membrane,late endosome,membrane,integral component of membrane,cytoplasmic, membrane-bounded vesicle,late endosome membrane,
Protein Function	domain:Contains a histidine-rich region which is a ligand for zinc and an aspartate-rich region which is a potential ligand for zinc.,function:Probably involved in zinc transport out of the cytoplasm, maybe by sequestration into an intracellular compartment.,similarity:Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.