



ZnT-4 Polyclonal Antibody

Catalog No	YP-Ab-04279
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SLC30A4
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC30A4. AA range:71-120
Specificity	ZnT-4 Polyclonal Antibody detects endogenous levels of ZnT-4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC30A4;Probable proton-coupled zinc antiporter SLC30A4;ZnT 4;ZnT-4;Zinc transporter 4;ZNT4;Solute carrier family 30 member 4
Observed Band	47kD
Calculated Molecular Weight	47kD
Cell Pathway	Endosome membrane ; Multi-pass membrane protein . Late endosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein .
Tissue Specificity	Fetal brain,Malignant prostate,Mesangial cell,Testis,
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.,
Background	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],

matters needing attention

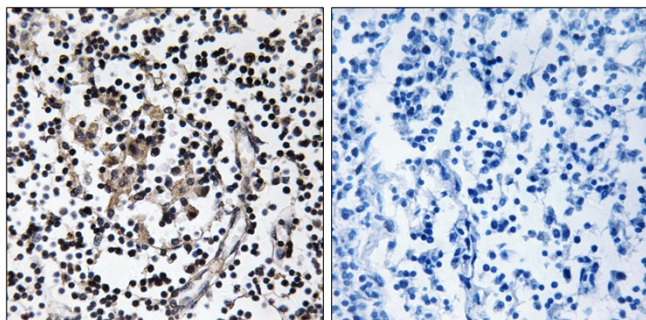
Avoid repeated freezing and thawing!

Usage suggestions

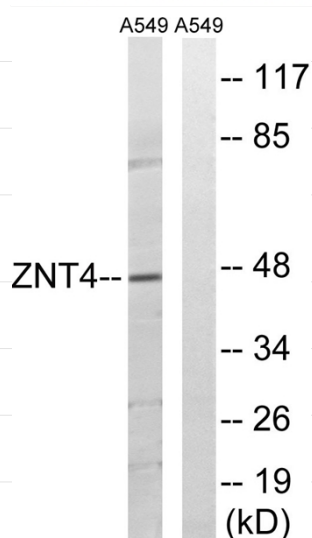
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



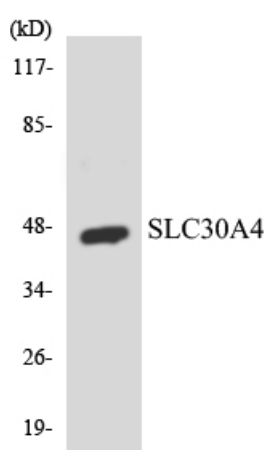
Products Images



Immunohistochemistry analysis of paraffin-embedded human lymph node tissue, using SLC30A4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A549 cells, using SLC30A4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using SLC30A4 antibody.