

## ZnT-8 Polyclonal Antibody

<b>Catalog No :</b>	YT4990
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	ZnT-8
<b>Gene Name :</b>	SLC30A8
<b>Protein Name :</b>	Zinc transporter 8
<b>Human Gene Id :</b>	169026
<b>Human Swiss Prot No :</b>	Q8IWU4
<b>Mouse Swiss Prot No :</b>	Q8BGG0
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human SLC30A8. AA range:171-220
<b>Specificity :</b>	ZnT-8 Polyclonal Antibody detects endogenous levels of ZnT-8 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	41kD

**Background :**

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],

**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.,

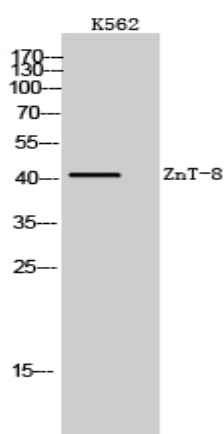
**Subcellular Location :**

Cell membrane ; Multi-pass membrane protein . Cytoplasmic vesicle, secretory vesicle membrane ; Multi-pass membrane protein . Associated with insulin and glucagon secretory granules. .

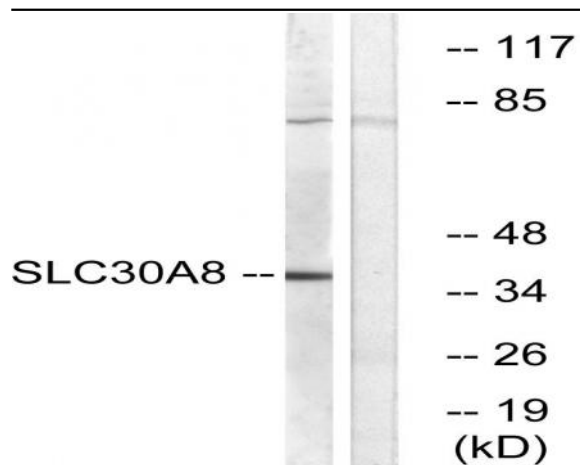
**Expression :**

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.

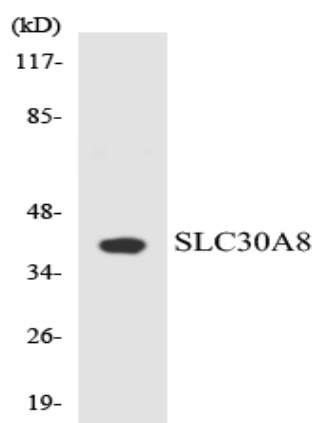
## Products Images



Western Blot analysis of K562 cells using ZnT-8 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from K562 cells, using SLC30A8 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using SLC30A8 antibody.