SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-ZNT8 antibody

Catalog Number: SL15382R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ZNT8
Immunogen:	KLH conjugated synthetic peptide derived from human ZNT8: 101-200/369 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Pig,Sheep)
Predicted MW.:	41kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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]. **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 **Subunit:** Homodimer (By similarity). **Subcellular Location:** Cell membrane; Multi-pass membrane protein

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

	(Probable). Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein (Probable). Note=Associated with insulin and glucagon secretory granules (By similarity). **Tissue Specificity:** 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. **Similarity:** Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily. **Database links:** **Entrez Gene:** 169026 Human Omim: 611145 Human **SwissProt:** Q8IWU4 Human **Unigene:** 532270 Human

[VALIDATION IMAGES]

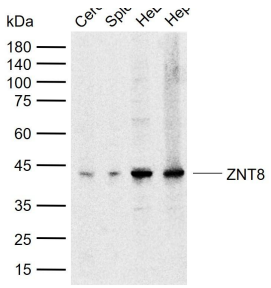


Figure 1. Sample: Lane 1: Rat Cerebrum tissue lysates Lane 2: Rat Spleen tissue lysates Lane 3: Human HeLa cell lysates Lane 4: Human HepG2 cell lysates Primary: Anti-ZNT8 (SL15382R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 41 kDa Observed band size: 41 kDa

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.