

SLC30A8 Antibody
Catalog # ASC12029

Specification

SLC30A8 Antibody - Product Information

Application	WB
Primary Accession	Q8IWU4
Other Accession	64762489 , NP_776250 , 169026
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	40755
Application Notes	SLC30A8 antibody can be used for Western blot at 1 - 2 µg/mL.

SLC30A8 Antibody - Additional Information

Gene ID	169026
Other Names	
SLC30A8 Antibody: Solute carrier family 30 member 8, zinc transporter 8, ZNT8, Zn-T8	

Precautions

SLC30A8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SLC30A8 Antibody - Protein Information

Name SLC30A8 ([HGNC:20303](#))

Function

Proton-coupled zinc ion antiporter mediating the entry of zinc into the lumen of pancreatic beta cell secretory granules, thereby regulating insulin secretion.

Cellular Location

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

Tissue Location

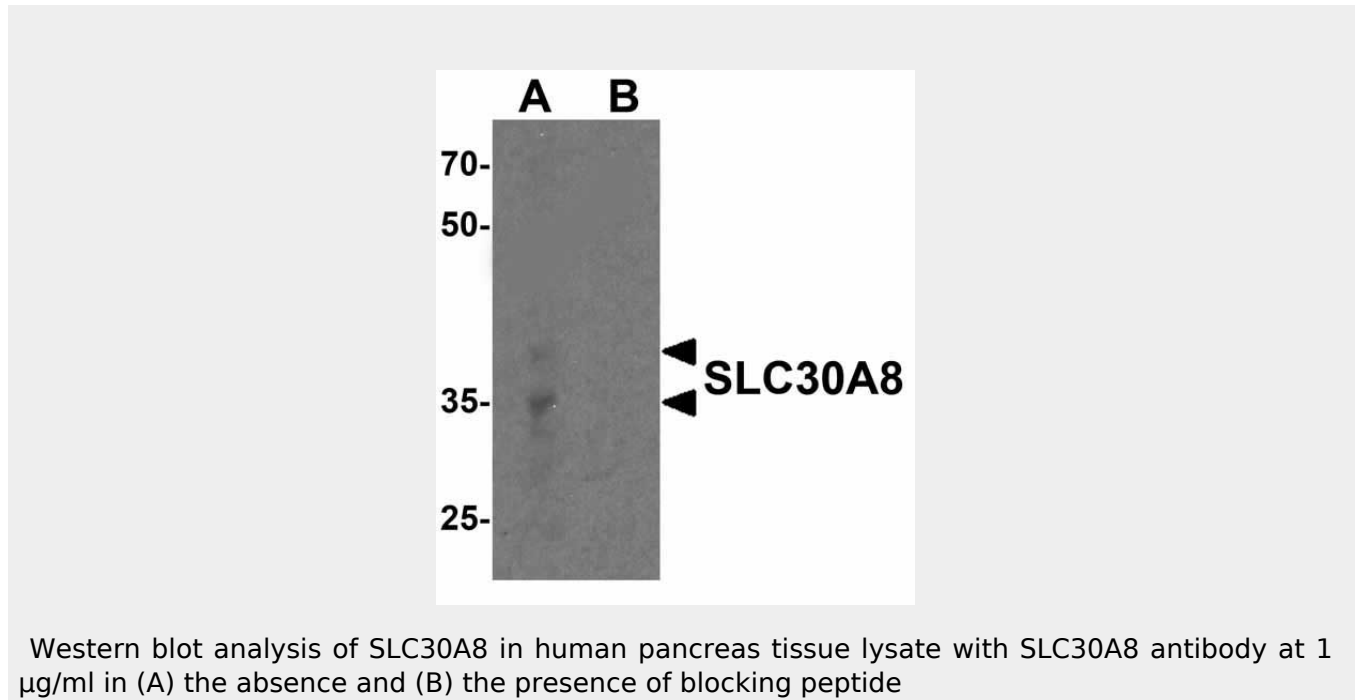
In the endocrine pancreas, expressed in insulin- producing beta cells. Expressed at relatively high levels in subcutaneous fat tissue from lean persons; much lower levels in visceral fat, whether from lean or obese individuals, and in subcutaneous fat tissue from obese individuals. Expressed in peripheral blood mononuclear cells, including T-cells and B-cells, with great variation among individuals ranging from negative to strongly positive

SLC30A8 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC30A8 Antibody - Images



SLC30A8 Antibody - Background

SLC30A8 Antibody: SLC30A8 is a zinc efflux transporter involved in the accumulation of zinc in intracellular vesicles and is expressed at a high level in the pancreas, particularly in islets of Langerhans, and co-localizes with insulin in the secretory pathway granules of the insulin-secreting INS-1 cells (1). Allelic variants of SLC30A8 have been identified as major genetic risk factors for the development of Type 2 diabetes (2), but no genetic association has been found with Type 1 diabetes (3). SLC30A8 expression in β -cells was found to be influenced by cytokine expression, particularly IFN-gamma and IL-1beta (4).

SLC30A8 Antibody - References

Chimienti F, Devergnas S, Favier A, et al. Identification and cloning of a beta-cell-specific zinc transporter, ZnT-8, localized into insulin secretory granules. *Diabetes* 2004; 53:2330-7.; Sladek R, Rocheleau G, Rung J, et al. A genome-wide association study identifies novel risk loci for type 2 diabetes. *Science* 2007; 445:881-5.; Qu HQ, Grant SF, Bradfield JP, et al. Association analysis of type 2 diabetes Loci in type 1 diabetes. *Diabetes* 2008; 57:1983-6.; Egefjord L, Jensen JL, Bang-Berthelsen CH, et al. Zinc transporter gene expression is regulated by pro-inflammatory cytokines: a potential role for zinc transporters in beta-cell apoptosis? *BMC Endocrine Disorders* 2009; 9:7.