10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC30A7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12737a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8NEW0
Other Accession	Q5BJM8, Q9JKN1, A4IFD7, Q6NRI1, Q52KD7, NP_598003.2, NP_001138356.1
Reactivity	Human, Rat, Mouse
Predicted	Xenopus, Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32405
Calculated MW	41626
Antigen Region	1-30

Additional Information

Gene ID	148867
Other Names	Zinc transporter 7, ZnT-7, Solute carrier family 30 member 7, Znt-like transporter 2, SLC30A7, ZNT7, ZNTL2
Target/Specificity	This SLC30A7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SLC30A7.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC30A7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC30A7 (HGNC:19306)
Function	Zinc ion transporter mediating zinc entry from the cytosol into the lumen of organelles along the secretory pathway (PubMed:15525635,

	PubMed:15994300). By contributing to zinc ion homeostasis within the early secretory pathway, regulates the activation and folding of enzymes like alkaline phosphatases (PubMed:15525635, PubMed:15994300).
Cellular Location	Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q9JKN1} Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:Q9JKN1} Sarcoplasmic reticulum {ECO:0000250|UniProtKB:Q5BJM8}. Mitochondrion {ECO:0000250|UniProtKB:Q5BJM8}
Tissue Location	Highly expressed in megakaryocytes and other bone marrow cells and in the epithelium of the small intestine. Expressed in testis (in Leydig cells), adrenal gland (in adrenal medula, zona fasciculata and zona of reticularis), and pituitary gland (in somatotropic cells).

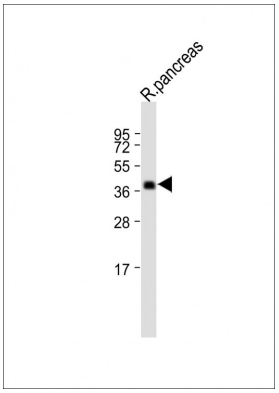
Background

Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal ion. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A7, permit cellular efflux of zinc (Seve et al., 2004 [PubMed 15154973]).

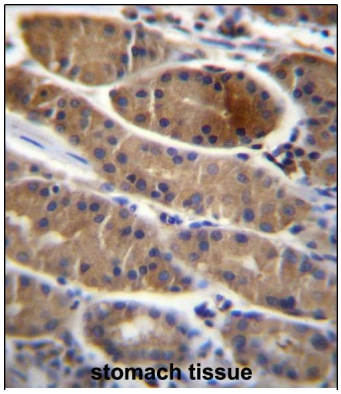
References

Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)
Zhang, L.H., et al. Brain Res. Bull. 77(1):55-60(2008)
Overbeck, S., et al. J. Leukoc. Biol. 83(2):368-380(2008)
Falcon-Perez, J.M., et al. Exp. Cell Res. 313(7):1473-1483(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

Images



All lanes : Anti-SLC30A7 Antibody (N-term) at 1:1000 dilution Lane 1: rat pancreas tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG/A/M(H/L), Peroxidase conjugated at 1/2000 dilution. Observed band size : 40kDa Blocking/Dilution buffer: 5% NFDM/TBST.



SLC30A7 Antibody (N-term) (Cat. #AP12737a)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC30A7 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.