

SLC30A7 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12737a**Specification**

SLC30A7 Antibody (N-term) - 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
Predicted	Xenopus, Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41626
Antigen Region	1-30

SLC30A7 Antibody (N-term) - 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.

DilutionWB~~1:1000
IHC-P~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

SLC30A7 Antibody (N-term) - 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](#)).

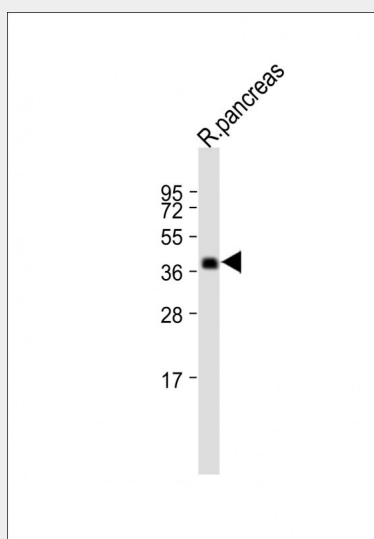
Cellular Location

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}

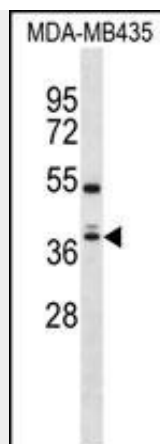
SLC30A7 Antibody (N-term) - Protocols

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

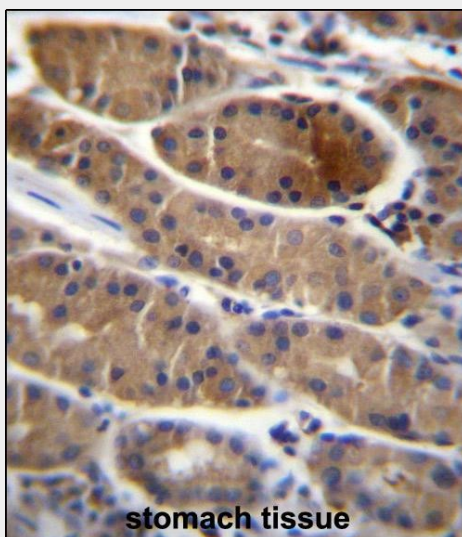
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC30A7 Antibody (N-term) - 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) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the SLC30A7 antibody detected the SLC30A7 protein (arrow).



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.

SLC30A7 Antibody (N-term) - 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]).

SLC30A7 Antibody (N-term) - 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) :