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

SLC39A7 / ZIP7 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS14009

Specification

SLC39A7 / ZIP7 Antibody (N-Terminus) - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q92504
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200** **E~~N/A**

SLC39A7 / ZIP7 Antibody (N-Terminus) - Additional Information

Gene ID 7922

Other Names
Zinc transporter SLC39A7, Histidine-rich membrane protein Ke4, Really interesting new gene 5 protein, Solute carrier family 39 member 7, Zrt-, Irt-like protein 7, ZIP7, SLC39A7, HKE4, RING5

Target/Specificity
Human SLC39A7

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
SLC39A7 / ZIP7 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC39A7 / ZIP7 Antibody (N-Terminus) - Protein Information

Name SLC39A7

Synonyms HKE4 {ECO:0000303|PubMed:14525538}, RING

Function
Transports Zn(2+) from the endoplasmic reticulum (ER)/Golgi apparatus to the cytosol, playing an essential role in the regulation of cytosolic zinc levels (PubMed:14525538, PubMed:15705588, PubMed:28205653, PubMed:29980658). Acts as a

gatekeeper of zinc release from intracellular stores, requiring post-translational activation by phosphorylation, resulting in activation of multiple downstream pathways leading to cell growth and proliferation (PubMed:22317921, PubMed:28205653, PubMed:29980658). Has an essential role in B cell development and is required for proper B cell receptor signaling (PubMed:30718914). Plays an important role in maintaining intestinal epithelial homeostasis and skin dermis development by regulating ER function (By similarity). Controls cell signaling pathways involved in glucose metabolism in skeletal muscle (By similarity). Has a protective role against ER stress in different biological contexts (PubMed:29980658, PubMed:30237509). Mediates Zn(2+)-induced ferroptosis (PubMed:33608508).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus, cis-Golgi network membrane; Multi-pass membrane protein

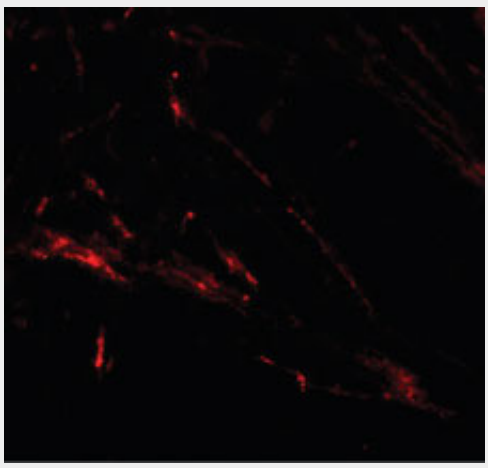
Tissue Location
Widely expressed.

SLC39A7 / ZIP7 Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC39A7 / ZIP7 Antibody (N-Terminus) - Images



Immunofluorescence of ZIP7 in human brain tissue with ZIP7 antibody at 20 ug/ml.

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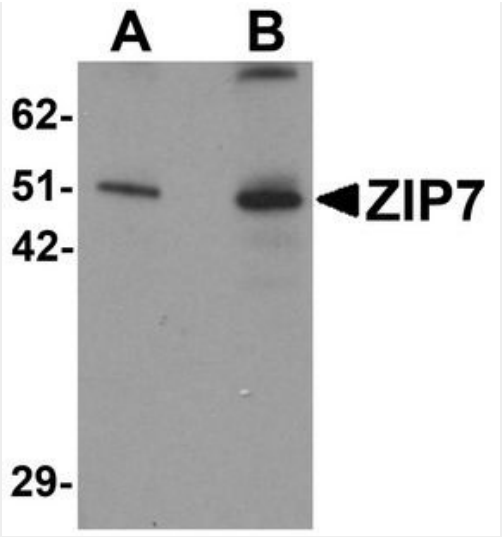
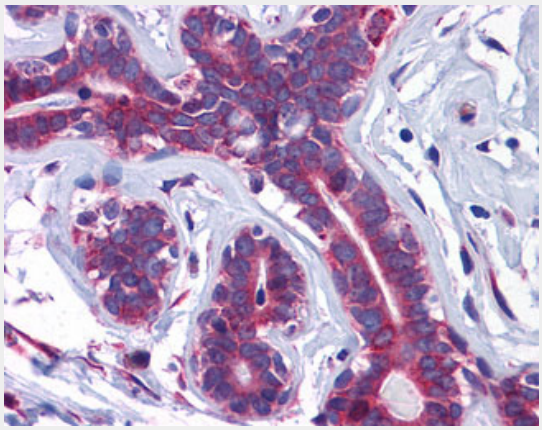


Western blot analysis of ZIP7 in mouse brain tissue lysate with ZIP7 antibody at (A) 0.5 and (B)...



Anti-SLC39A7 antibody IHC of human breast.

SLC39A7 / ZIP7 Antibody (N-Terminus) - Background

Zinc transporter, that transports Zn(2+) from the endoplasmic reticulum/Golgi apparatus to the cytosol. Transport is stimulated by growth factors, such as EGF, and Ca(2+), as well as by exogenous Zn(2+).

SLC39A7 / ZIP7 Antibody (N-Terminus) - References

Ando A.,et al.Genomics 35:600-602(1996).
Vergara A.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Taylor K.M.,et al.Biochem. J. 377:131-139(2004).