

ZIP13 Antibody

Catalog # ASC11253

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q96H72
Other Accession	NP_001121697 , 190014617
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	39011
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ZIP13 antibody can be used for detection of ZIP13 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	91252
Other Names	Zinc transporter ZIP13, LIV-1 subfamily of ZIP zinc transporter 9, LZT-Hs9, Solute carrier family 39 member 13, Zrt- and Irt-like protein 13, ZIP-13, SLC39A13, ZIP13
Target/Specificity	Slc39a13; At least two isoforms of ZIP13 are known to exist; this antibody will detect both isoforms. ZIP13 antibody is predicted to not cross-react with other ZIP family members.
Reconstitution & Storage	ZIP13 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	ZIP13 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC39A13 (HGNC:20859)
Synonyms	ZIP13
Function	Functions as a zinc transporter transporting Zn(2+) from the Golgi apparatus to the cytosol and thus influences the zinc level at least in areas of the cytosol (PubMed: 21917916 , PubMed: 23213233). May regulate beige adipocyte differentiation (By similarity).

Cellular Location

Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane. Endoplasmic reticulum membrane

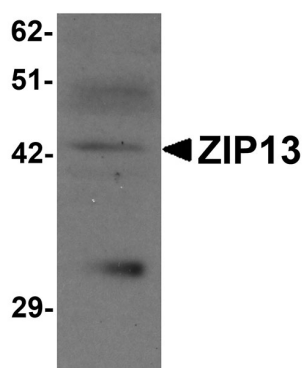
Background

ZIP13 Antibody: The zinc transporter ZIP13, also known as SLC39A13, is a member of a family of divalent ion transporters. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. The zinc transporter family is divided into four subfamilies (I, II, LIV-1 and gufA). ZIP13 is a multipass membrane protein that belongs to the ZIP transporter subfamily LIV-1. Mutations in ZIP13 have recently been shown to cause a spondylocheiro dysplastic form of Ehlers-Danlos syndrome (SCD-EDS), a generalized skeletal dysplasia involving mainly the spine with clinical abnormalities of the hands in addition to EDS-like features. Other experiments have shown that ZIP13 is required for proper connective tissue development and is involved in BMP/TGF- signaling pathways.

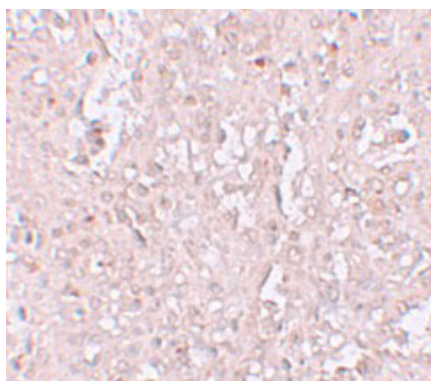
References

Dufner-Beattie J, Langmade SJ, Wang F, et al. Structure, function, and regulation of a subfamily of mouse zinc transporter genes. *J. Biol. Chem.* 2003; 278:50142-50.
Eide DJ. The SLC39 family of metal ion transporters. *Pflugers Arch.* 2004; 447:796-800.
Taylor KM and Nicholson RI. The LZT proteins; the LIV-1 subfamily of zinc transporters. *Biochim. Biophys. Acta.* 2003; 1611:16-30.
Giunta C, Elcioglu NH, Albrecht B, et al. Spondylocheiro dysplastic form of Ehlers-Danlos syndrome - an autosomal recessive entity caused by mutations in the zinc transporter SLC39A13. *Am. J. Hum. Genet.* 2008; 82:1290-305.

Images

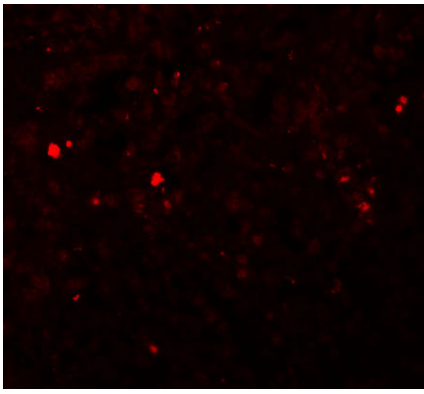


Western blot analysis of ZIP13 in K562 cell lysate with ZIP13 antibody at 1 µg/mL.



Immunohistochemistry of ZIP13 in human spleen tissue with ZIP13 antibody at 2.5 µg/mL.

Immunofluorescence of ZIP13 in human spleen tissue with ZIP13 antibody at 20 µg/mL.



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