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ZIP11 Antibody

Catalog # ASC10840

Product Information

Application	WB, E, IHC-P
Primary Accession	Q8N1S5
Other Accession	EAW89107, 119609513
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	35396
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ZIP11 antibody can be used for detection of ZIP11 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 g/mL.

Additional Information

Gene ID	201266
Other Names	Zinc transporter ZIP11, Solute carrier family 39 member 11, Zrt- and Irt-like protein 11, ZIP-11, SLC39A11, C17orf26, ZIP11
Target/Specificity	SLC39A11; This antibody will not cross-react with the zinc transporter ZIP10.
Reconstitution & Storage	ZIP11 antibody can be stored at 4℃ for three months and -20℃, 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	ZIP11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC39A11
Synonyms	C17orf26, ZIP11
Function	Zinc importer that regulates cytosolic zinc concentrations either via zinc influx from the extracellular compartment or efflux from intracellular organelles such as Golgi apparatus. May transport copper ions as well. The transport mechanism remains to be elucidated.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q8BWY7}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8BWY7}. Nucleus

{ECO:0000250|UniProtKB:Q8BWY7}. Cytoplasm
{ECO:0000250|UniProtKB:Q8BWY7}. Golgi apparatus
{ECO:0000250|UniProtKB:Q8BWY7}

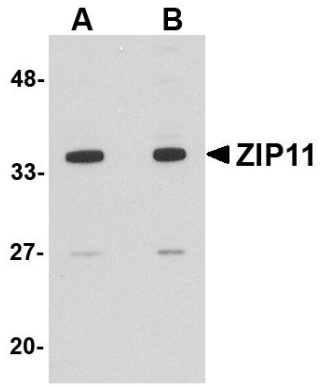
Background

ZIP11 Antibody: ZIP11, also known as Slc39A11, is a member of the broader ZIP family of multi-transmembrane domain metal ion transporters. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. Members of the ZIP family generally transport metal ions from the cell exterior or lumen of intracellular organelles into the cytoplasm, as opposed to the ZnT (SLC30) family of zinc transporters that serve to reduce intracellular zinc availability by promoting zinc efflux from cells or into intracellular vesicles. At least three isoforms of ZIP11 are known to exist.

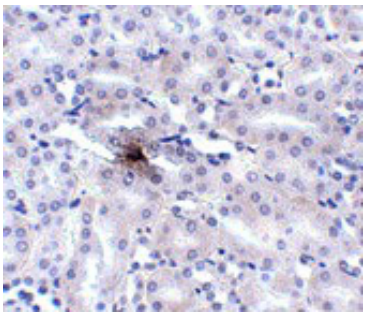
References

Eide DJ. The SLC39 family of metal ion transporters. Pflugers Arch.2004; 447:796-800.
Taylor KM and Nicohlson RI. The LZT proteins; the LIV-1 subfamily of zinc transporters. Biochim. Biophys. Acta.2003; 1611:16-30.
Liuzzi JP and Cousins RJ. Mammalian zinc transporters. Annu. Rev. Nutr.2004; 24:151-72.

Images



Western blot analysis of ZIP11 in mouse kidney tissue lysate with ZIP11 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of ZIP11 in mouse kidney tissue with ZIP11 antibody at 2.5 µg/mL.