

ZIP2 Antibody

Catalog No: #25225

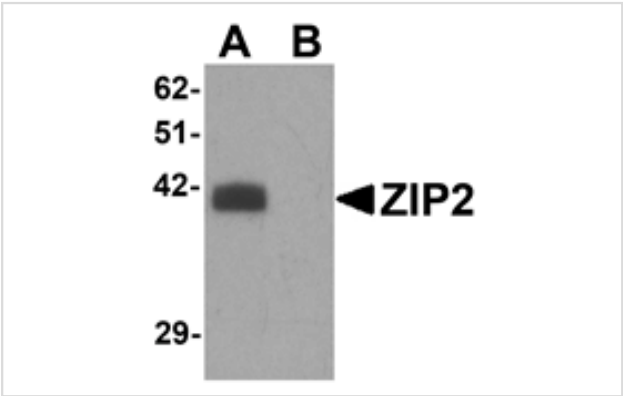


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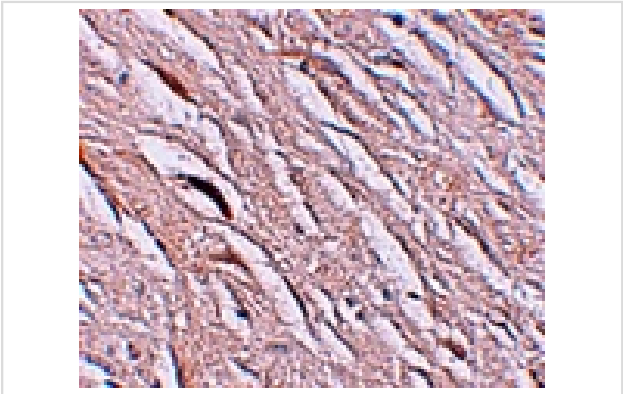
Description

Product Name	ZIP2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide near the amino terminus of human ZIP2.
Target Name	ZIP2
Other Names	Solute carrier family 39 member A2, Slc39A2, 6A1, Eti-1
Accession No.	Swiss-Prot:Q9NP94Gene ID:29986
Uniprot	Q9NP94
GeneID	29986;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

Images



Western blot analysis of ZIP2 in rat brain tissue lysate with ZIP2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ZIP2 in human brain tissue with ZIP2 antibody at 2.5 ug/mL.

Background

The zinc transporter ZIP2, also known as SLC39A2, 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. Similar to knock-outs of ZIP1 and ZIP3, ZIP2-null mice have no phenotypic differences compared to wild-type mice. Only when ZIP1, ZIP2, and ZIP3 genes are all eliminated and these mutant mice are fed a zinc-deficient diet do abnormalities such as reduced embryonic-membrane bound alkaline phosphatase activity and abnormal development occur, indicating that the ZIP1-3 proteins play an important, noncompensatory role when zinc is deficient. More recent studies have shown that ZIP2 and ZIP3 are down regulated in human prostate adenocarcinomatous glands, and may be important in the retention of zinc in the cellular compartment.

Note: This product is for in vitro research use only