ZIP3 Antibody

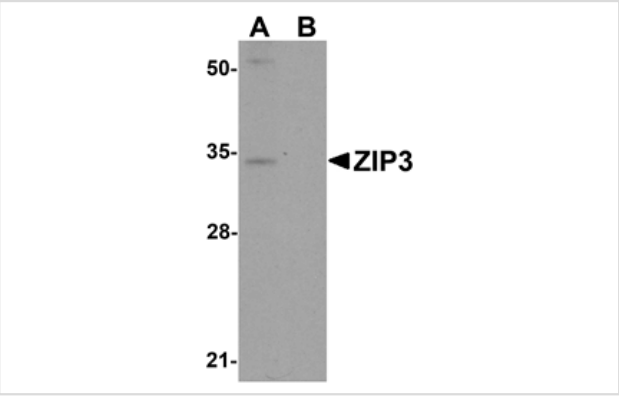
Catalog No: #25226

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

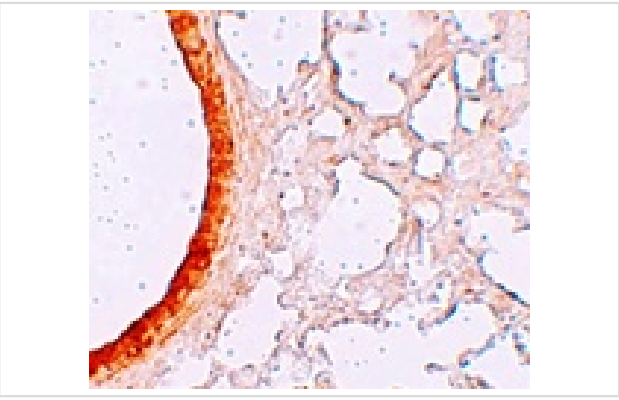
Description

Product Name	ZIP3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide near the center of human ZIP3.
Target Name	ZIP3
Other Names	Solute carrier family 39 member A3, Slc39A3
Accession No.	Swiss-Prot:Q9BRY0Gene ID:29985
Uniprot	Q9BRY0
GeneID	29985;
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 ZIP3 in mouse lung tissue lysate with ZIP3 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ZIP3 in mouse lung tissue with ZIP3 antibody at 5 ug/mL.

Background

The zinc transporter ZIP3, also known as SLC39A3, 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 ZIP2, ZIP3-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