

## Product datasheet for **TA319907**

### SLC39A2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ZIP2 antibody was raised against a 17 amino acid synthetic peptide near the amino terminus of human ZIP2.
Formulation:	ZIP2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ZIP2 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	solute carrier family 39 member 2
Database Link:	<a href="#">NP_055394</a> <a href="#">Entrez Gene 214922 Mouse</a> <a href="#">Entrez Gene 305846 Rat</a> <a href="#">Entrez Gene 29986 Human</a> <a href="#">Q9NP94</a>

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**Background:**

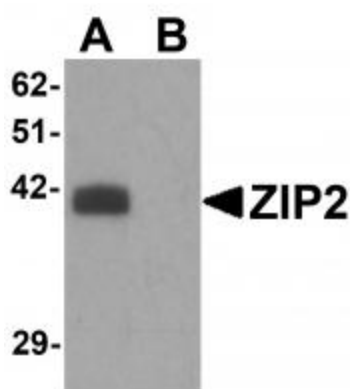
ZIP2 Antibody: The zinc transporter ZIP2, also known as SLC39A2, is a member of a family of divalent ion transporters. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. Similar to knock-outs of ZIP1 and ZIP3, ZIP2-null mice have no phenotypic 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.

**Synonyms:**

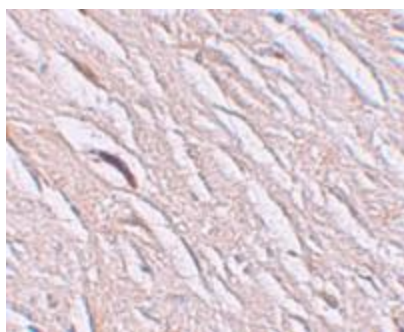
6A1; ETI-1; ZIP-2; ZIP2

**Protein Families:**

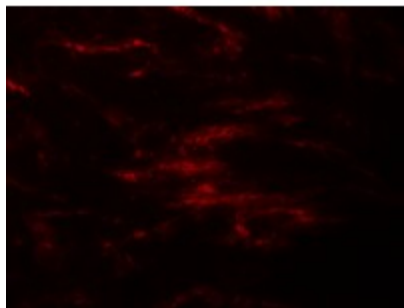
Transmembrane

**Product 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.



Immunofluorescence of ZIP2 in human brain tissue with ZIP2 antibody at 20 ug/mL.