

## Product datasheet for **AP53782PU-N**

### SLC39A3 (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100-1/500. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 113~142 amino acids from the Center region of Human SLC39A3
Specificity:	Recognizes SLC39A3 (Center).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide Affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	solute carrier family 39 member 3
Database Link:	<a href="#">Entrez Gene 106947 Mouse</a> <a href="#">Entrez Gene 29985 Human</a> <a href="#">Q9BRY0</a>



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**Background:**

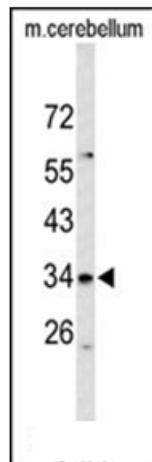
The zinc transporter ZIP3, also known as SLC39A3, is a member of a family of divalent ion transporters. Zinc is an essential ion for cells and plays significant roles in the growth, development, and differentiation. Similar to knock-outs of ZIP1 and ZIP2, ZIP3-null mice have no phenotypic differences 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.

**Synonyms:**

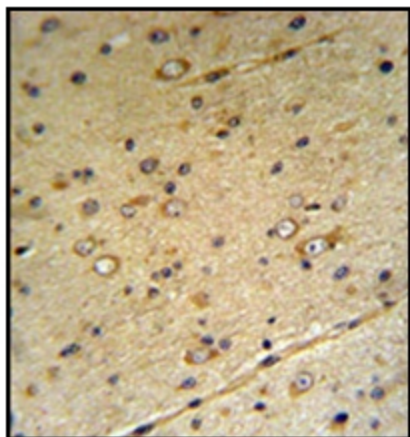
ZIP3, ZIP-3

**Note:****Molecular Weight:** 33601 Da**Protein Families:**

Transmembrane

**Product images:**

Western blot analysis in Mouse cerebellum tissue lysates (35 ug/lane) using SLC39A3 Antibody (Center). SLC39A3 (arrow) was detected using the purified Pab.



Immunohistochemistry analysis in Formalin Fixed, Paraffin Embedded Mouse Brain tissue using SLC39A3 antibody (Center) followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SLC39A3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.