

Datasheet for ABIN955672
anti-SLC39A3 antibody (Middle Region)



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2 Images

Overview

Quantity:	0.4 mL
Target:	SLC39A3
Binding Specificity:	AA 113-142, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC39A3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 113~142 amino acids from the Center region of Human SLC39A3 Gene name: SLC39A3
Isotype:	Ig Fraction
Specificity:	Recognizes SLC39A3 (Center).
Purification:	Protein A column followed by peptide Affinity purification

Target Details

Target:	SLC39A3
Alternative Name:	Zinc Transporter ZIP3 / SLC39A3 (SLC39A3 Products)

Target Details

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: Solute carrier family 39 member 3, ZIP-3, ZIP3, Zrt- and Irt-like protein 3

Gene ID: 29985

NCBI Accession: [NP_653165](#)

Pathways: [NF-kappaB Signaling](#), [Neurotrophin Signaling Pathway](#), [Autophagy](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS with 0.09 % (W/V) Sodium Azide as preservative

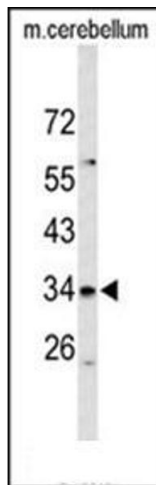
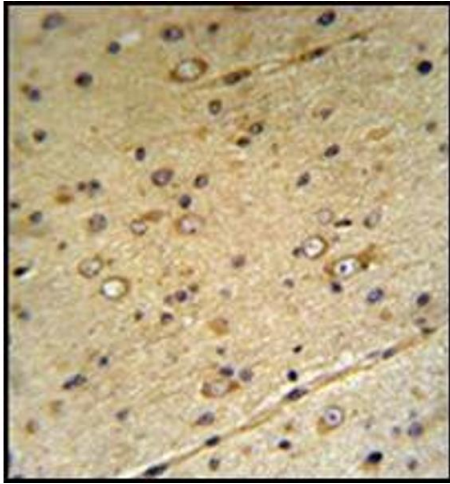
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. 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.

Western Blotting

Image 2. Western blot analysis in Mouse cerebellum tissue lysates (35 ug/lane) using SLC39A3 Antibody (Center) Cat.-No AP53782PU-N. SLC39A3 (arrow) was detected using the purified Pab.