

Polyclonal Antibody to SLC39A7 (N-term) - Aff - Purified

Alternate names:	HKE4, Histidine-rich membrane protein Ke4, RING5, Really interesting new gene 5 protein, Solute carrier family 39 member 7, Zinc transporter SLC39A7
Catalog No.:	TA319740
Quantity:	0.1 mg
Background:	The zinc transporter ZIP7, also known as SLC39A7, 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. ZIP7 was initially identified while characterizing genes in the major histocompatibility complex on chromosome 17. ZIP7 mRNA is abundantly and widely expressed and the protein localizes to the Golgi apparatus. It functions to transport intracellular zinc from the Golgi apparatus to the cytoplasm of the cell. ZIP7 expression is expressed by zinc. ZIP7 has been suggested to act a hub for tyrosine kinase activation and may thus be a potential therapeutic target for diseases such as cancer where prevention of tyrosine kinase activation would be advantageous.
Uniprot ID:	Q92504
NCBI:	NP_001070984
GeneID:	7922
Host:	Rabbit
Immunogen:	17 amino acid peptide near the amino terminus of human ZIP7
Format:	State: Liquid Ig fraction Purification: Affinity chromatography purified via peptide column Buffer System: PBS containing 0.02% sodium azide
Applications:	ELISA. Western blot: 0.5 - 1 µg/ml. Positive control: Mouse Brain Tissue Lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects SLC39A7 at N-term.
Species Reactivity:	Tested: Human, mouse, rat
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Dufner-Beattie J, Langmade SJ, Wang F, Eide D, Andrews GK. Structure, function, and regulation of a subfamily of mouse zinc transporter genes. J Biol Chem. 2003 Dec 12;278(50):50142-50. Epub 2003 Oct 2. PubMed PMID: 14525987. 2. Eide DJ. The SLC39 family of metal ion transporters. Pflugers Arch. 2004

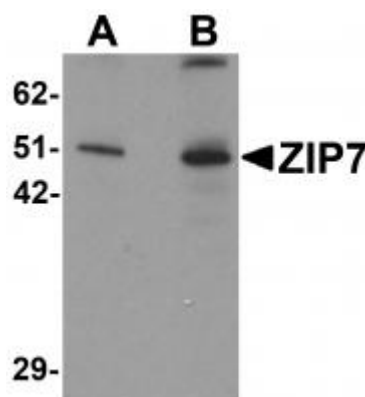
Feb;447(5):796-800. Epub 2003 May 14. PubMed PMID: 12748861.

3. Taylor KM, Nicholson RI. The LZT proteins; the LIV-1 subfamily of zinc transporters. Biochim Biophys Acta. 2003 Apr 1;1611(1-2):16-30. PubMed PMID: 12659941.

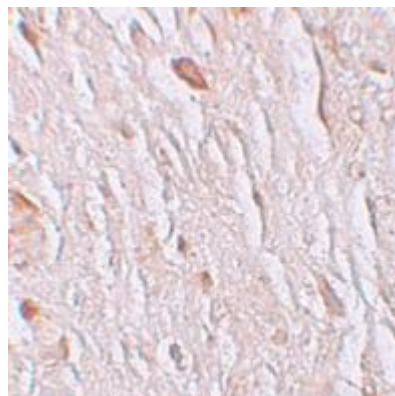
4. Lai F, Stubbs L, Lehrach H, Huang Y, Yeom Y, Artzt K. Genomic organization and expressed sequences of the mouse extended H-2K region. Genomics. 1994 Sep 15;23(2):338-43. PubMed PMID: 7835882.

Pictures:

Western blot analysis of ZIP7 in mouse brain tissue lysate with ZIP7 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry of ZIP7 in human brain tissue with ZIP7 antibody at 2.5 ug/mL.



Immunofluorescence of ZIP7 in human brain tissue with ZIP7 antibody at 20 ug/mL.

