

Rabbit anti-Human SLC39A14 Polyclonal Antibody | anti-SLC39A14 antibody

SLC39A14 Antibody (N-term)

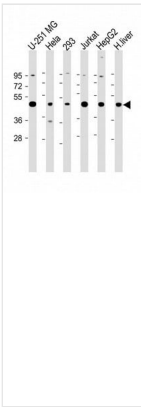
CATALOG # AAA289830	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

SLC39A14; Polyclonal Antibody; SLC39A14 Antibody (N-term); Zinc transporter ZIP14; LIV-1 subfamily of ZIP zinc transporter 4; LZT-Hs4; Solute carrier family 39 member 14; Zrt- and Irt-like protein 14; ZIP-14; KIAA0062; ZIP14; anti-SLC39A14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This SLC39A14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-58 amino acids from the N-terminal region of human SLC39A14.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	29-58
Sequence Length	492
Applicable Applications for anti-SLC39A14 antibody	ELISA, WB (Western Blot)
Function	Electroneutral transporter of the plasma membrane mediating the cellular uptake of the divalent metal cations zinc, manganese and iron that are important for tissue homeostasis, metabolism, development and immunity (PubMed:15642354, PubMed:27231142, PubMed:29621230). Functions as an energy-dependent symporter, transporting through the membranes an electroneutral complex composed of a divalent metal cation and two bicarbonate anions (By similarity). Beside these endogenous cellular substrates, can also import cadmium a non-essential metal which is cytotoxic and carcinogenic (By similarity). Controls the cellular uptake by the intestinal epithelium of systemic zinc, which is in turn required to maintain tight junctions and the intestinal permeability (By similarity). Modifies the activity of zinc-dependent phosphodiesterases, thereby indirectly regulating G protein-coupled receptor signaling pathways important for gluconeogenesis and chondrocyte differentiation (By similarity). Regulates insulin receptor signaling, glucose uptake, glycogen synthesis and gluconeogenesis in hepatocytes through the zinc-dependent intracellular catabolism of insulin (PubMed:27703010). Through zinc cellular uptake also plays a role in the adaptation of cells to endoplasmic reticulum stress (By similarity). Major manganese transporter of the basolateral membrane of intestinal epithelial cells, it plays a central role in manganese systemic homeostasis through intestinal manganese uptake (PubMed:31028174). Also involved in manganese extracellular uptake by cells of the blood-brain barrier (PubMed:31699897). May also play a role in manganese and zinc homeostasis participating in their elimination from the blood through the hepatobiliary excretion (By similarity). Also functions in the extracellular uptake of free iron. May also function intracellularly and mediate the transport from endosomes to cytosol of iron endocytosed by transferrin (PubMed:20682781). Plays a role in innate immunity by regulating the expression of cytokines by activated macrophages (PubMed:23052185).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)

All lanes : Anti-SLC39A14 Antibody (N-term) at 1:2000 dilution
Lane 1: U-251 MG whole cell lysate
Lane 2: Hela whole cell lysate
Lane 3: 293 whole cell lysate
Lane 4: Jurkat whole cell lysate
Lane 5: HepG2 whole cell lysate
Lane 6: Human liver lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 54 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC39A14 antibody	Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A14 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).
Product Categories/Family for anti-SLC39A14 antibody	Metabolism; Signal Transduction
References	Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010) Gao, J., et al. J. Biol. Chem. 283(31):21462-21468(2008) Liuzzi, J.P., et al. Proc. Natl. Acad. Sci. U.S.A. 102(19):6843-6848(2005) Taylor, K.M., et al. FEBS Lett. 579(2):427-432(2005) Taylor, K.M., et al. Biochim. Biophys. Acta 1611 (1-2), 16-30 (2003) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	190360568
NCBI GeneID	23516
NCBI Accession #	NP_001121903.1; NP_001128625.1; NP_001128626.1; NP_056174.2
NCBI GenBank Nucleotide #	NM_001128431.2
UniProt Accession #	Q15043; Q6ZME8; Q96BB3; A6NH98; B4DIW3; B6EU88; D3DSR4
NCBI Official Full Name	zinc transporter ZIP14 isoform a
NCBI Official Synonym Full Names	solute carrier family 39 (zinc transporter), member 14
NCBI Official Symbol	SLC39A14
NCBI Official Synonym Symbols	NET34; ZIP14; cig19; LZT-Hs4
NCBI Protein Information	zinc transporter ZIP14
UniProt Protein Name	Zinc transporter ZIP14
UniProt Gene Name	SLC39A14
UniProt Synonym Gene Names	KIAA0062; ZIP14; LZT-Hs4; ZIP-14

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/slc39a14-antibody-western-blot-elisa/289830>