

Rabbit SLC39A14 / ZIP14 Polyclonal Antibody | anti-SLC39A14 antibody

Rabbit Polyclonal to Human SLC39A14 / ZIP14

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51608	Rabbit	Human, Mouse, Rat	Immunofluorescence, ELISA, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

SLC39A14 / ZIP14; Polyclonal Antibody; Rabbit Polyclonal to Human SLC39A14 / ZIP14; Anti-SLC39A14 / ZIP14 Antibody (Internal) IHC-plus; SLC39A14; KIAA0062; LZT-Hs4; NET34; Zrt-; Irt-like protein 14; Zinc transporter ZIP14; ZIP-14; ZIP14; Zrt- and Irt-like protein 14; Cig19; Human SLC39A14; anti-SLC39A14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Human SLC39A14. At least three isoforms of ZIP14 are known to exist; this antibody will detect both isoforms. ZIP14 antibody is predicted to not cross-react with other ZIP family members.
Purity/Purification	Peptide Column Affinity Chromatography
Form/Format	PBS, 0.02% sodium azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	492
Applicable Applications for anti-SLC39A14 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Immunogen Type	Synthetic peptide
Immunogen Species	SLC39A14 / ZIP14 antibody was raised against Human
Immunogen	SLC39A14 / ZIP14 antibody was raised against a 16 amino acid peptide near the center of human ZIP14
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:

Tissue Preparation:
Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:
Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:
Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:
Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT
Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT
Wash slides in 1 change of 80% alcohol - 3 minutes @ RT
Rinse slides in gentle running distilled water - 5 minutes @ RT

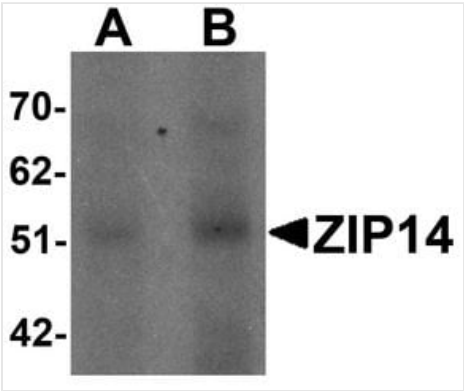
Antigen retrieval:
Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes
Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

Immunostaining:
(Do not allow tissues to dry at any time during the staining procedure)
Apply a universal protein block - 20 minutes @ RT
Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT
Rinse slides in 1 X TBST - 1 minute @ RT
Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase streptavidin - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT
Wash slides in distilled water - 1 minute @ RT

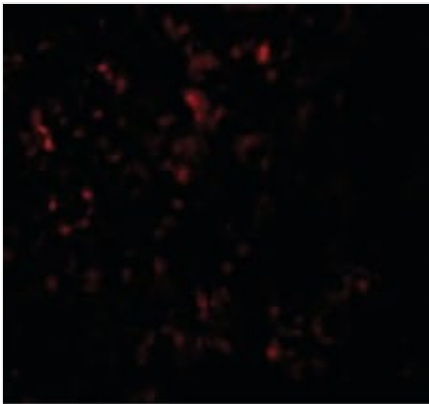
Dehydrate:
(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB))
Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT
Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT
Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT
Wash slides in 3 changes of xylene - 1 minute each @ RT
Apply coverslip

Preparation and Storage Store at 4°C for up 3 months. Store at -20°C for up to 1 year. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of ZIP14 in human spleen tissue lysate with ZIP14 antibody at (A) 1 and (B) 2 ug/ml.

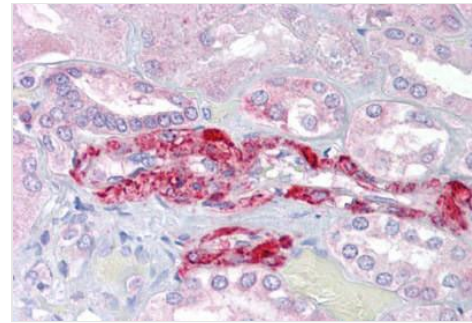


IF (Immunofluorescence)
Immunofluorescence of ZIP14 in Mouse Liver cells with ZIP14 antibody at 20 ug/ml.



IHC (Immunohistochemistry)

Anti-SLC39A14 antibody IHC of human colon, vessels. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



IHC (Immunohistochemistry)

Anti-SLC39A14 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-SLC39A14 antibody

Family: [Transporter](#); Subfamily: [Zinc-iron transporter](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	190360568
NCBI GeneID	23516
NCBI Accession #	NP_001121903.1
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; ZIP-14; Zrt-, Irt-like protein 14; zrt- and Irt-like protein 14; solute carrier family 39 member 14; LIV-1 subfamily of ZIP zinc transporter 4; solute carrier family 39 (metal ion transporter), member 14
UniProt Protein Name	Zinc transporter ZIP14
UniProt Gene Name	SLC39A14
UniProt Synonym Gene Names	KIAA0062; ZIP14; LZT-Hs4; ZIP-14
UniProt Entry Name	S39AE_HUMAN

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-zip14-antibody-immunofluorescence-western-blot-immunohistochemistry-elisa/51608>