ARG46687
anti-ZIP-5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ZIP-5
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ZIP-5
Species	Human
Immunogen	A 17 amino acid synthetic peptide within the last 50 amino acids of human ZIP-5.
Conjugation	Un-conjugated
Alternate Names	SLC39A5; solute carrier family 39 (metal ion transporter), member 5; ZIP5; ZIP5; LZT-Hs7; ZIP5; Zinc transporter ZIP5; Solute carrier family 39 member 5; ZIP-5

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity chromatography purified
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -737°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SLC39A5
Gene Full Name	solute carrier family 39 (metal ion transporter), member 5
Background	The protein encoded by this gene belongs to the ZIP family of zinc transporters that transport zinc into cells from outside, and play a crucial role in controlling intracellular zinc levels. Zinc is an essential cofactor for many enzymes and proteins involved in gene transcription, growth, development and differentiation. Mutations in this gene have been associated with autosomal dominant high myopia (MYP24). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]
Function	Uniporter that transports zinc(2+) into polarized cells of enterocytes, pancreatic acinar and endoderm cells across the basolateral membrane and participates, notably, in zinc excretion from the intestine by the uptake of zinc from the blood into the intestine (By similarity). The transport mechanism is temperature- and concentration-dependent and saturable (By similarity). In addition, is also a high affinity copper transporter in vitro (PubMed:36454509). Also may regulate glucose-stimulated insulin secretion (GSIS) in islets primarily through the zinc-activated SIRT1-PPARGC1A axis (By similarity). Could regulate the BMP/TGF-beta (bone morphogenetic protein/transforming growth factor-beta) signaling pathway and modulates extracellular matrix (ECM) proteins of the sclera (PubMed:24891338). Plays a role in eye development (PubMed:24891338). [UniProt]
Calculated Mw	56 kDa
PTM	Phosphoprotein; Glycoprotein; Methylation. [UniProt]
Cellular Localization	Cell membrane; Cell membrane . [UniProt]