

SLC39A11 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59318

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8N1S5
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35396
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC39A11
Epitope Specificity	251-342/342
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein (Potential).
SIMILARITY	Belongs to the ZIP transporter (TC 2.A.5) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc is an essential cofactor that is involved in cell growth and development, as well as in protein, nucleic acid and lipid metabolism. The transport of zinc across the cell membrane is crucial for correct enzyme and overall cell function. SLC39A11 (solute carrier family 39 (metal ion transporter), member 11), also known as ZIP11 (Zrt- and Irt-like protein 11), is a 342 amino acid multi-pass membrane protein belonging to the ZIP transporter family. Expressed as multiple alternatively spliced isoforms, SLC39A11 acts as a zinc-influx transporter and is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes, some of which are involved in tumor suppression and in the pathogenesis of Li-Fraumeni syndrome, early onset breast cancer and a predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Additional Information

Gene ID	201266
Other Names	Zinc transporter ZIP11, Solute carrier family 39 member 11, Zrt- and Irt-like protein 11, ZIP-11, SLC39A11, C17orf26, ZIP11
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	SLC39A11
Synonyms	C17orf26, ZIP11
Function	Zinc importer that regulates cytosolic zinc concentrations either via zinc influx from the extracellular compartment or efflux from intracellular organelles such as Golgi apparatus. May transport copper ions as well. The transport mechanism remains to be elucidated.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q8BWY7}; Multi-pass membrane protein {ECO:0000250 UniProtKB:Q8BWY7}. Nucleus {ECO:0000250 UniProtKB:Q8BWY7}. Cytoplasm {ECO:0000250 UniProtKB:Q8BWY7}. Golgi apparatus {ECO:0000250 UniProtKB:Q8BWY7}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.