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SLC17A9 Rabbit pAb

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Catalog # AP57924

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BYT1
Predicted	Rat, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47482
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC17A9
Epitope Specificity	1-100/436
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of a family of transmembrane proteins that are involved in the transport of small molecules. The encoded protein participates in the vesicular uptake, storage, and secretion of adenoside triphosphate (ATP) and other nucleotides. A mutation in this gene was found in individuals with autosomal dominant disseminated superficial actinic porokeratosis-8. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Additional Information

Gene ID	63910
Other Names	Voltage-gated purine nucleotide uniporter SLC17A9, Solute carrier family 17 member 9 {ECO:0000312|HGNC:HGNC:16192}, Vesicular nucleotide transporter, VNUT, SLC17A9 {ECO:0000303|PubMed:18375752, ECO:0000312|HGNC:HGNC:16192}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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.

Protein Information

Name	SLC17A9 {ECO:0000303|PubMed:18375752, ECO:0000312|HGNC:HGNC:16192}
Function	Voltage-gated ATP nucleotide uniporter that can also transport the purine nucleotides ADP and GTP. Uses the membrane potential as the driving force to control ATP accumulation in lysosomes and secretory vesicles (PubMed:18375752, PubMed:23467297). By controlling ATP storage in lysosomes, regulates ATP-dependent proteins of these organelles (PubMed:35269509). Also indirectly regulates the exocytosis of ATP through its import into lysosomes in astrocytes and secretory vesicles such as adrenal chromaffin granules, mucin granules and synaptic vesicles (PubMed:18375752, PubMed:23467297).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane {ECO:0000250|UniProtKB:Q8VCL5}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein. Lysosome membrane {ECO:0000250|UniProtKB:Q8VCL5}; Multi- pass membrane protein. Note=Localizes to mucin granules and vesicles.
Tissue Location	Widely expressed, but more predominantly in adrenal gland, brain and thyroid.

Background

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