

SLC25A3 Rabbit pAb

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Catalog # AP57673

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q00325
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40095
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC25A3
Epitope Specificity	51-150/362
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	Mitochondrion inner membrane.
DISEASE	Mitochondrial phosphate carrier deficiency (MPCD)
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene catalyzes the transport of phosphate into the mitochondrial matrix, either by proton cotransport or in exchange for hydroxyl ions. The protein contains three related segments arranged in tandem which are related to those found in other characterized members of the mitochondrial carrier family. Both the N-terminal and C-terminal regions of this protein protrude toward the cytosol. Multiple alternatively spliced transcript variants have been isolated. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	5250
Other Names	Solute carrier family 25 member 3, Phosphate carrier protein, mitochondrial, Phosphate transport protein, PTP, SLC25A3 {ECO:0000303 PubMed:29237729, ECO:0000312 HGNC:HGNC:10989}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	SLC25A3 {ECO:0000303 PubMed:29237729, ECO:0000312 HGNC:HGNC:10989}
Function	Inorganic ion transporter that transports phosphate or copper ions across the mitochondrial inner membrane into the matrix compartment (By similarity) (PubMed: 17273968 , PubMed: 29237729). Mediates proton-coupled symport of phosphate ions necessary for mitochondrial oxidative phosphorylation of ADP to ATP (By similarity) (PubMed: 17273968). Transports copper ions probably in the form of anionic copper(I) complexes to maintain mitochondrial matrix copper pool and to supply copper for cytochrome C oxidase complex assembly (PubMed: 29237729). May also play a role in regulation of the mitochondrial permeability transition pore (mPTP) (By similarity).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein {ECO:0000250 UniProtKB:P12234}

Background

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