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SLC25A23 Rabbit pAb

Catalog # AP98074

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BV35
Other Accession	Q9BV35
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52378
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC25A23
Epitope Specificity	41-140/468
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the mitochondrial carrier (TC 2.A.29) family. Contains 3 EF-hand domains. Contains 3 Solcar repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SLC25A23 is a calcium dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane. May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria.

Additional Information

Gene ID	79085
Other Names	APC2; MCSC2; SCAMC3; SCaMC-3; 2310067G05Rik; SCMC3_HUMAN; SLC25A23; Mitochondrial ATP-Mg/Pi carrier protein 2; Short calcium-binding mitochondrial carrier protein 3 (SCaMC-3); Solute carrier family 25 member 23; SCMC3_MOUSE; solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	SLC25A23 (HGNC:19375)
Function	Electroneutral antiporter that mediates the transport of adenine nucleotides through the inner mitochondrial membrane. Originally identified as an ATP-magnesium/inorganic phosphate antiporter, it also acts as a broad specificity adenyl nucleotide antiporter. By regulating the mitochondrial matrix adenine nucleotide pool could adapt to changing cellular energetic demands and indirectly regulate adenine nucleotide-dependent metabolic pathways (PubMed:15123600). Also acts as a regulator of mitochondrial calcium uptake and can probably transport trace amounts of other divalent metal cations in complex with ATP (PubMed:24430870, PubMed:28695448). In vitro, a low activity is also observed with guanyl and pyrimidine nucleotides (PubMed:15123600).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein
Tissue Location	Expressed at low levels in most tissues examined, with highest expression in brain, skeletal muscle and pancreas

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