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SLC25A24 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57934

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6NUK1
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53354
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC25A24
Epitope Specificity	121-220/477
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SLC25A24 (Solute carrier family 25 member 24) is a calcium-dependent mitochondrial solute carrier. It 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	29957
Other Names	Calcium-binding mitochondrial carrier protein SCaMC-1, Mitochondrial ATP-Mg/Pi carrier protein 1, Mitochondrial Ca(2+)-dependent solute carrier protein 1, Small calcium-binding mitochondrial carrier protein 1, Solute carrier family 25 member 24, SLC25A24, APC1, MCSC1, SCAMC1
Target/Specificity	Present in various cell lines (at protein level). Expressed in all tissues tested. Highly expressed in testis, expressed at intermediate level in small intestine and pancreas, and weakly expressed in kidney, spleen, liver, skeletal muscle and heart.
Dilution	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.

Protein Information

Name	SLC25A24 (HGNC:20662)
Function	Electroneutral antiporter that mediates the transport of adenyl 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 adenyl nucleotide pool could adapt to changing cellular energetic demands and indirectly regulate adenyl nucleotide- dependent metabolic pathways (PubMed:15123600, PubMed:22015608). In vitro, a low activity is also observed with guanyl and pyrimidine nucleotides (PubMed:15123600). May play a role in protecting cells against oxidative stress-induced cell death, by buffering calcium levels in the mitochondrial matrix through the formation of calcium- phosphate precipitates (PubMed:22015608, PubMed:29100093).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein
Tissue Location	Expressed in all tissues tested. Highly expressed in testis, expressed at intermediate level in small intestine and pancreas, and weakly expressed in kidney, spleen, liver, skeletal muscle and heart.