

SLC25A24 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57934

Specification

SLC25A24 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q6NUK1</u>

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
S3 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human SLC25A24

Epitope Specificity 121-220/477

Isotype IgG

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

affinity purified by Protein A

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.

SLC25A24 Polyclonal Antibody - 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~~N/A<br \><span class</pre>





="dilution IHC-F">IHC-F~~N/A<br \>IF~~1:50~200
or \>ICC~~N/A
or \> \>E~~N/A

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.

SLC25A24 Polyclonal Antibody - 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 quanyl 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.

SLC25A24 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC25A24 Polyclonal Antibody - Images