

SLC25A25 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20508a

Product Information

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| Application | WB, IHC-P, E |
| Primary Accession | Q6KCM7 |
| Other Accession | Q7ZYD5 , Q8K3P6 , A2ASZ8 , Q0V7M4 , A2CEQ0 |
| Reactivity | Human, Rat, Mouse |
| Predicted | Zebrafish, Bovine, Mouse, Xenopus |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 52663 |
| Antigen Region | 63-93 |

Additional Information

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|---------------------------|---|
| Gene ID | 114789 |
| Other Names | Calcium-binding mitochondrial carrier protein SCaMC-2, Mitochondrial ATP-Mg/Pi carrier protein 3, Mitochondrial Ca(2+)-dependent solute carrier protein 3, Small calcium-binding mitochondrial carrier protein 2, Solute carrier family 25 member 25, SLC25A25, APC3, KIAA1896, MCSC3, SCAMC2 |
| Target/Specificity | This SLC25A25 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-93 amino acids from the N-terminal region of human SLC25A25. |
| Dilution | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | SLC25A25 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | SLC25A25 (HGNC:20663) |
| Function | Electroneutral antiporter that most probably mediates the transport of |

adenyl nucleotides through the inner mitochondrial membrane. Originally identified as an ATP-magnesium/inorganic phosphate antiporter, it could have a broader specificity for adenyl nucleotides. By regulating the mitochondrial matrix adenyl nucleotide pool could adapt to changing cellular energetic demands and indirectly regulate adenyl nucleotide-dependent metabolic pathways.

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Widely expressed. Expressed in fetal and adult liver, skeletal muscle, testis, ovary, hippocampus and caudate nucleus [Isoform 2]: Expression is restricted to kidney and lung.

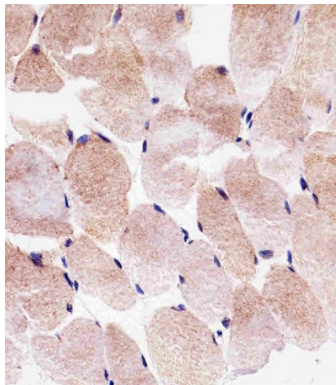
Background

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.

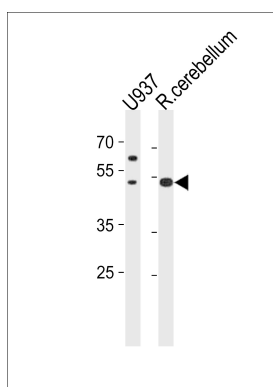
References

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Nagase T., et al. DNA Res. 8:179-187(2001).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).

Images



Immunohistochemical analysis of paraffin-embedded H. skeletal muscle section using SLC25A25 Antibody (N-term)(Cat#AP20508A). AP20508A was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



SLC25A25 Antibody (N-term) (Cat. #AP20508a) western blot analysis in U-937 cell line and rat cerebellum tissue lysates (35ug/lane). This demonstrates the SLC25A25 antibody detected the SLC25A25 protein (arrow).

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