

**SLC25A25 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20508a**

**Specification**

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**SLC25A25 Antibody (N-term) - Product Information**

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

**SLC25A25 Antibody (N-term) - Additional Information**

**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~~1:25

**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.

**SLC25A25 Antibody (N-term) - Protein Information**

**Name** SLC25A25 ([HGNC:20663](#))

**Function** Electroneutral antiporter that most probably mediates the transport of adenyly nucleotides through the inner mitochondrial membrane. Originally identified as an ATP-magnesium/inorganic phosphate antiporter, it could have a broader specificity for adenyly nucleotides. By regulating the mitochondrial matrix adenyly nucleotide pool could adapt to changing cellular energetic demands and indirectly regulate adenyly nucleotide-dependent metabolic pathways.

**Cellular Location**

Mitochondrion inner membrane; Multi-pass membrane protein

**Tissue Location**

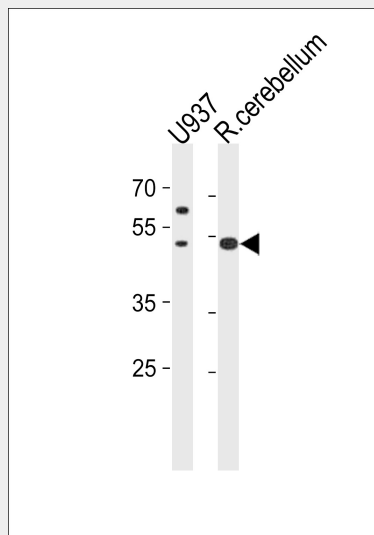
Widely expressed. Expressed in fetal and adult liver, skeletal muscle, testis, ovary, hippocampus and caudate nucleus [Isoform 2]: Expression is restricted to kidney and lung.

**SLC25A25 Antibody (N-term) - Protocols**

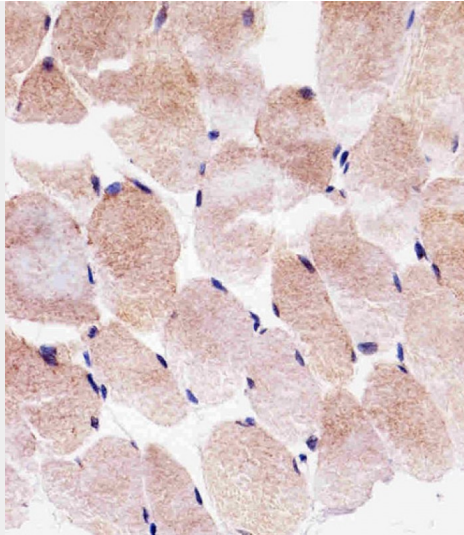
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SLC25A25 Antibody (N-term) - Images**



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).



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) - 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.

#### **SLC25A25 Antibody (N-term) - References**

del Arco A., et al. J. Biol. Chem. 279:24701-24713(2004).  
Fiermonte G., et al. J. Biol. Chem. 279:30722-30730(2004).  
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).