

## SLC25A23 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP18589c

## **Specification**

## SLC25A23 Antibody (Center) Blocking Peptide - Product Information

**Primary Accession** 

**Q9BV35** 

# SLC25A23 Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 79085

#### **Other Names**

Calcium-binding mitochondrial carrier protein SCaMC-3, Mitochondrial ATP-Mg/Pi carrier protein 2, Mitochondrial Ca(2+)-dependent solute carrier protein 2, Small calcium-binding mitochondrial carrier protein 3, Solute carrier family 25 member 23, SLC25A23, APC2, MCSC2, SCAMC3

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

## **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# SLC25A23 Antibody (Center) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/15123600" target="\_blank">15123600</a>). 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:<a

href="http://www.uniprot.org/citations/24430870" target="\_blank">24430870</a>, PubMed:<a href="http://www.uniprot.org/citations/28695448" target="\_blank">28695448</a>). In vitro, a low activity is also observed with guanyl and pyrimidine nucleotides (PubMed:<a href="http://www.uniprot.org/citations/15123600" target=" blank">15123600</a>).

## **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

## SLC25A23 Antibody (Center) Blocking Peptide - Protocols

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

### Blocking Peptides

SLC25A23 Antibody (Center) Blocking Peptide - Images

# SLC25A23 Antibody (Center) Blocking Peptide - 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.

## SLC25A23 Antibody (Center) Blocking Peptide - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)Del Arco, A. Biochem. J. 389 (PT 3), 647-655 (2005): Bassi, M.T., et al. Gene 345(2):173-182(2005) Fiermonte, G., et al. J. Biol. Chem. 279(29):30722-30730(2004)del Arco, A., et al. J. Biol. Chem. 279(23):24701-24713(2004)