10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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:15123600). 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:24430870, PubMed:28695448). In vitro, a low activity is also observed with guanyl and pyrimidine nucleotides (PubMed:15123600).

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)