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SLC25A12 Antibody (N-Term) Blocking peptide
Synthetic peptide
Catalog # BP10273a

Specification

SLC25A12 Antibody (N-Term) Blocking peptide - Product Information

Primary Accession	O75746
Other Accession	NP_003696.2

SLC25A12 Antibody (N-Term) Blocking peptide - Additional Information

Gene ID 8604

Other Names
Calcium-binding mitochondrial carrier protein Aralar1, Mitochondrial aspartate glutamate carrier 1, Solute carrier family 25 member 12, SLC25A12, ARALAR1

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.

SLC25A12 Antibody (N-Term) Blocking peptide - Protein Information

Name SLC25A12 (HGNC:10982)

Function
Mitochondrial electrogenic aspartate/glutamate antiporter that favors efflux of aspartate and entry of glutamate and proton within the mitochondria as part of the malate-aspartate shuttle (PubMed:11566871, PubMed:19641205, PubMed:24515575). Also mediates the uptake of L-cysteinesulfinate by mitochondria in exchange of L- glutamate and proton. Can also exchange L-cysteinesulfinate with aspartate in their anionic form without any proton translocation (PubMed:11566871).

Cellular Location
Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location
Expressed predominantly in the heart and skeletal muscle, weakly in brain and kidney.

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SLC25A12 Antibody (N-Term) Blocking peptide - Protocols

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

- Blocking Peptides

SLC25A12 Antibody (N-Term) Blocking peptide - Images

SLC25A12 Antibody (N-Term) Blocking peptide - Background

This gene encodes a calcium-binding mitochondrial carrierprotein. The encoded protein localizes to the mitochondria and isinvolved in the exchange of aspartate for glutamate across theinner mitochondrial membrane. Polymorphisms in the gene encodingthis protein may be associated with risk of autism. [provided byRefSeq].

SLC25A12 Antibody (N-Term) Blocking peptide - References

Maestrini, E., et al. Mol. Psychiatry 15(9):954-968(2010)Chien, W.H., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry 34(1):189-192(2010)Chakrabarti, B., et al. Autism Res 2(3):157-177(2009)Marmol, P., et al. J. Biol. Chem. 284(1):515-524(2009)Turunen, J.A., et al. Autism Res 1(3):189-192(2008)