SLC25A37 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SLC25A37, Blocking Peptide
Full Product Name	SLC25A37 Antibody (C-term) Blocking Peptide
Product Gene Name	SLC25A37 blocking peptide
Product Synonym Gene Name	MFRN; MSCP
Product Synonym Names	Mitoferrin-1; Mitochondrial iron transporter 1; Mitochondrial solute carrier protein; Solute carrier family 25 member 37; SLC25A37; MFRN; MSCP
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SLC25A37 peptide (MBS9228359) is used for blocking the activity of SLC25A37 antibody (MBS9210193)
Molecular Weight	21,125 Da
OMIM	610387
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein
Related Product Information for SLC25A37 blocking peptide	Mitochondrial iron transporter that specifically mediates iron uptake in developing erythroid cells, thereby playing an essential role in heme biosynthesis. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme (By similarity).
Other Notes	Small volumes of SLC25A37 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC25A37 purchase	MBS9228359 is a blocking peptide targeting SLC25A37. Also known as SLC25A37 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A37. It may not necessarily be applicable to this product.

NCBI GI #	189047115
NCBI GeneID	51312
NCBI Accession #	Q9NYZ2.2
UniProt Primary Accession #	Q9NYZ2
UniProt Secondary Accession #	Q53FT7; Q69YJ8; Q969S1; Q9P0J2; A2RU93
UniProt Related Accession #	Q9NYZ2
NCBI Official Full Name	Mitoferrin-1
NCBI Official Synonym Full Names	solute carrier family 25 member 37
NCBI Official Symbol	SLC25A37
NCBI Official Synonym Symbols	MSC; MFRN; MSCP; HT015; MFRN1; PRO1278; PRO1584; PRO2217

UniProt Protein Name	Mitoferrin-1
UniProt Synonym Protein Names	Mitochondrial iron transporter 1; Mitochondrial solute carrier protein; Solute carrier family 25 member 37
Protein Family	Mitoferrin
UniProt Gene Name	SLC25A37
UniProt Synonym Gene Names	MFRN; MSCP
UniProt Entry Name	MFRN1_HUMAN
NCBI Protein Information	mitoferrin-1
NCBI Summary for SLC25A37	SLC25A37 is a solute carrier localized in the mitochondrial inner membrane. It functions as an essential iron importer for the synthesis of mitochondrial heme and iron-sulfur clusters (summary by Chen et al., 2009 [PubMed 19805291]).[supplied by OMIM, Jan 2011]
UniProt Comments for SLC25A37	SLC25A37: Mitochondrial iron transporter that specifically mediates iron uptake in developing erythroid cells, thereby playing an essential role in heme biosynthesis. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme. Belongs to the mitochondrial carrier family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 8p21.2 Molecular Function: structural constituent of ribosome Biological Process: translation
Research Articles on SLC25A37	**1.** RNA-sequencing and Reverse transcriptase PCR showed higher expression of a specific isoform of SLC25A37 in SF3B1-mutant patients, a crucial importer of Fe(2+) into the mitochondria
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