SURF1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SURF1, Blocking Peptide
Full Product Name	SURF1 Peptide - N-terminal region
Product Gene Name	SURF1 blocking peptide
Sequence	GLRAAGLGRA PASAAWRSVL RVSPRPGVAW RPSRCGSSAA EASATKAEDD
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SURF1 peptide (MBS3240166) is used for blocking the activity of SURF1 antibody (MBS3215262)
Molecular Weight	33kDa
OMIM	185620
Product Categories/Family for SURF1 blocking peptide	Peptide
Applications Tested/Suitable for SURF1 blocking peptide	Western Blot (WB)
Related Product Information for SURF1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-SURF1 Antibody, made Target Description: This gene encodes a protein localized to the inner mitochondrial membrane and thought to be involved in the biogenesis of the cytochrome c oxidase complex. The protein is a member of the SURF1 family, which includes the related yeast protein SHY1 and rickettsial protein RP733. The gene is located in the surfeit gene cluster, a group of very tightly linked genes that do not share sequence similarity, where it shares a bidirectional promoter with SURF2 on the opposite strand. Defects in this gene are a cause of Leigh syndrome, a severe neurological disorder that is commonly associated with systemic cytochrome c oxidase deficiency.
Other Notes	Small volumes of SURF1 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 SURF1 purchase	MBS3240166 is a blocking peptide targeting SURF1. Also known as SURF1 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SURF1. It may not necessarily be applicable to this product.

NCBI GI #	4507319
NCBI GeneID	6834
NCBI Accession #	NP_003163
UniProt Primary Accession #	Q15526
UniProt Related Accession #	Q15526
GenBank Nucleotide #	NM_003172

NCBI Official Full Name	surfeit locus protein 1 isoform 1
NCBI Official Synonym Full Names	SURF1 cytochrome c oxidase assembly factor
NCBI Official Symbol	SURF1
NCBI Official Synonym Symbols	CMT4K
UniProt Protein Name	Surfeit locus protein 1
Protein Family	SURF1-like protein
UniProt Gene Name	SURF1
UniProt Synonym Gene Names	SURF-1
UniProt Entry Name	SURF1_HUMAN
NCBI Protein Information	surfeit locus protein 1
NCBI Summary for SURF1	This gene encodes a protein localized to the inner mitochondrial membrane and thought to be involved in the biogenesis of the cytochrome c oxidase complex. The protein is a member of the SURF1 family, which includes the related yeast protein SHY1 and rickettsial protein RP733. The gene is located in the surfeit gene cluster, a group of very tightly linked genes that do not share sequence similarity, where it shares a bidirectional promoter with SURF2 on the opposite strand. Defects in this gene are a cause of Leigh syndrome, a severe neurological disorder that is commonly associated with systemic cytochrome c oxidase deficiency. [provided by RefSeq, Jul 2008]
UniProt Comments for SURF1	SURF1: Probably involved in the biogenesis of the COX complex. Defects in SURF1 are a cause of Leigh syndrome (LS). LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions that is commonly associated with systemic cytochrome c oxidase (COX) deficiency. Belongs to the SURF1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Oxidoreductase; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 9q34.2 Cellular Component: integral to membrane; mitochondrial respiratory chain Molecular Function: protein binding; cytochrome-c oxidase activity Biological Process: respiratory chain complex IV assembly; ATP biosynthetic process; aerobic respiration; oxidative phosphorylation Disease: Leigh Syndrome
Research Articles on SURF1	**1.** SURF1 mutations may be associated with worse clinical outcome in Chinese patients with Leigh syndrome than other populations.
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