INF2 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	INF2, Blocking Peptide
Full Product Name	INF2 Peptide - C-terminal region
Product Gene Name	INF2 blocking peptide
Product Synonym Gene Name	C14orf151; C14orf173; DKFZp762A0214; FLJ22056; FSGS5; MGC13251; pp9484; CMTDIE
Sequence	DSSGSGTLPR ARGRASKGTG KRRKKRPSRS QEEVPPDSDD NKTKKLCVIQ
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	INF2 peptide (MBS3241027) is used for blocking the activity of INF2 antibody (MBS3216127)
Molecular Weight	37kDa
OMIM	AK025709 mRNA
Product Categories/Family for INF2 blocking peptide	Peptide
Applications Tested/Suitable for INF2 blocking peptide	Western Blot (WB)
Related Product Information for INF2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-INF2 Antibody, made Target Description: This gene represents a member of the formin family of proteins. It is considered a diaphanous formin due to the presence of a diaphanous inhibitory domain located at the N-terminus of the encoded protein. Studies of a similar mouse protein indicate that the protein encoded by this locus may function in polymerization and depolymerization of actin filaments. Mutations at this locus have been associated with focal segmental glomerulosclerosis 5.
Other Notes	Small volumes of INF2 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 INF2 purchase	MBS3241027 is a blocking peptide targeting INF2. Also known as INF2 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INF2. It may not necessarily be applicable to this product.

NCBI GI #	149999380
NCBI GeneID	64423
NCBI Accession #	NP_071934
UniProt Primary Accession #	Q27J81
UniProt Related Accession #	Q27J81
GenBank Nucleotide #	NM_022489

NCBI Official Full Name	inverted formin-2 isoform 1
NCBI Official Synonym Full Names	inverted formin, FH2 and WH2 domain containing
NCBI Official Symbol	INF2
NCBI Official Synonym Symbols	FSGS5; CMTDIE; pp9484; C14orf151; C14orf173
UniProt Protein Name	Inverted formin-2
UniProt Synonym Protein Names	HBEBP2-binding protein C
Protein Family	Inverted formin
UniProt Gene Name	INF2
UniProt Synonym Gene Names	C14orf151; C14orf173
NCBI Protein Information	inverted formin-2
NCBI Summary for INF2	This gene represents a member of the formin family of proteins. It is considered a diaphanous formin due to the presence of a diaphanous inhibitory domain located at the N-terminus of the encoded protein. Studies of a similar mouse protein indicate that the protein encoded by this locus may function in polymerization and depolymerization of actin filaments. Mutations at this locus have been associated with focal segmental glomerulosclerosis 5.[provided by RefSeq, Aug 2010]
UniProt Comments for INF2	INF2: Severs actin filaments and accelerates their polymerization and depolymerization. Defects in INF2 are the cause of focal segmental glomerulosclerosis type 5 (FSGS5). A renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation. Defects in INF2 are the cause of Charcot-Marie-Tooth disease, dominant intermediate type E (CMTDIE). A form of Charcot-Marie-Tooth disease, a disorder of the peripheral nervous system, characterized by progressive weakness and atrophy, initially of the peroneal muscles and later of the distal muscles of the arms. The dominant intermediate type E is characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec. Patients additionally manifest focal segmental glomerulonephritis, proteinuria, progression to end-stage renal disease, and a characteristic histologic pattern on renal biopsy. Belongs to the formin homology family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 14q32.33 Cellular Component: perinuclear region of cytoplasm Disease: Charcot-marie-tooth Disease, Dominant Intermediate E; Focal Segmental Glomerulosclerosis 5
Research Articles on INF2	**1.** INF2-mediated actin polymerization on the endoplasmic reticulum stimulates mitochondrial division by two independent mechanisms: (1) mitochondrial calcium uptake, leading to inner mitochondrial membrane constriction; and (2) Drp1 oligomerization, leading to outer mitochondrial membrane constriction.
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