MRTFA Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MRTFA, Recombinant Protein
Full Product Name	Recombinant Human MRTFA
Product Gene Name	MRTFA recombinant protein
Product Synonym Names	BSAC; KIAA1438; MAL; MKL/myocardin like protein 1; MKL1; MRTF A; MRTFA; MRTF-A
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	98,919 Da
Sequence Positions	626-823
Chromosome Location	Chromosome: 22; NC_000022.10 (40806292..41032690, complement). Location: 22q13
OMIM	606078
3D Structure	ModBase 3D Structure for Q969V6
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for MRTFA recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for MRTFA recombinant protein	MBS7613432 is a recombinant protein targeting MRTFA. Also known as Recombinant Human MRTFA. Host: E Coli.
Other Notes	Small volumes of MRTFA recombinant protein 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.

ADDITIONAL DETAILS

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

NCBI GI #	14269566
NCBI GeneID	57591
NCBI Accession #	NP_065882.1
UniProt Primary Accession #	Q969V6
UniProt Secondary Accession #	Q8TCL1; Q96SC5; Q96SC6; Q9P2B0
UniProt Related Accession #	Q969V6

GenBank Nucleotide #	NM_020831.3
NCBI Official Full Name	MKL/myocardin-like protein 1
NCBI Official Synonym Full Names	megakaryoblastic leukemia (translocation) 1
NCBI Official Symbol	MKL1
NCBI Official Synonym Symbols	MAL; BSAC; MRTF-A
UniProt Protein Name	MKL/myocardin-like protein 1
UniProt Synonym Protein Names	Megakaryoblastic leukemia 1 protein; Megakaryocytic acute leukemia protein; Myocardin-related transcription factor A
UniProt Gene Name	MKL1
UniProt Synonym Gene Names	KIAA1438; MAL; MRTF-A
UniProt Entry Name	MKL1_HUMAN
NCBI Protein Information	MKL/myocardin-like protein 1; basic, SAP and coiled-coil domain; megakaryoblastic leukemia 1 protein; megakaryocytic acute leukemia protein; myocardin-related transcription factor A; RNA-binding motif protein 15/megakaryoblastic leukemia-1 fusion protein
NCBI Summary for MRTFA	The protein encoded by this gene interacts with the transcription factor myocardin, a key regulator of smooth muscle cell differentiation. The encoded protein is predominantly nuclear and may help transduce signals from the cytoskeleton to the nucleus. This gene is involved in a specific translocation event that creates a fusion of this gene and the RNA-binding motif protein-15 gene. This translocation has been associated with acute megakaryocytic leukemia. [provided by RefSeq, Jul 2008]
UniProt Comments for MRTFA	MKL1: Transcriptional coactivator of serum response factor (SRF) with the potential to modulate SRF target genes. Suppresses TNF-induced cell death by inhibiting activation of caspases; its transcriptional activity is indispensable for the antiapoptotic function. It may up-regulate antiapoptotic molecules, which in turn inhibit caspase activation. Forms with SCAI and SRF a nuclear ternary complex which binds the CArG consensus motif (CArG box) on DNA via SRF. Interacts with ACTB; interaction with ACTB prevents interaction with SCAI. Interacts with MKL2. Ubiquitously expressed, has been detected in lung, placenta, small intestine, liver, kidney, spleen, thymus, colon, muscle, heart and brain. Protein type: Transcription, coactivator/corepressor; Oncoprotein Chromosomal Location of Human Ortholog: 22q13 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: actin monomer binding; protein binding; leucine zipper domain binding; transcription coactivator activity; actin binding; transcription factor activity Biological Process: transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; smooth muscle cell differentiation; negative regulation of caspase activity
Research Articles on MRTFA	**1.** in megakaryocytes, subcellular localization and regulation of MKL1 is dependent on RhoA activity and actin organization
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