MKL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MKL1, Polyclonal Antibody
Full Product Name	MKL1 Polyclonal Antibody
Product Gene Name	anti-MKL1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	98kDa
OMIM	606078
3D Structure	ModBase 3D Structure for Q969V6
Immunogen	Recombinant protein of human MKL1 (NP_065882.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MKL1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MKL1 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-MKL1 antibody	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. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-MKL1 antibody 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 MKL1 purchase	MBS8568903 is an antibody targeting MKL1. Also known as MKL1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MKL1. 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 Related Accession #	Q969V6
GenBank Nucleotide #	NP_065882.1
NCBI Official Full Name	MKL/myocardin-like protein 1 isoform 1
NCBI Official Synonym Full Names	myocardin related transcription factor A
NCBI Official Symbol	MRTFA
NCBI Official Synonym Symbols	MAL; MKL; BSAC; MKL1; 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
Protein Family	MKL/myocardin-like protein
UniProt Gene Name	MKL1
UniProt Synonym Gene Names	KIAA1438; MAL; MRTF-A
UniProt Entry Name	MKL1_HUMAN
NCBI Protein Information	myocardin-related transcription factor A
UniProt Comments for MKL1	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 MKL1	**1.** genetic polymorphism rs59098711 locus of the MKL1 gene is associated with high-altitude adaption
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