MKL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MKL1, Polyclonal Antibody
Full Product Name	MKL1 Antibody, Biotin Conjugated
Product Gene Name	anti-MKL1 antibody
Product Synonym Names	MKL/myocardin-like protein 1; Megakaryoblastic leukemia 1 protein; Megakaryocytic acute leukemia protein; Myocardin-related transcription factor A; MRTF-A; MKL1; KIAA1438 MAL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95% Protein G Purified
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: MKL1 (MBS7114394) Biotin Conjugated Antibody: MKL1 (MBS7114397)
Molecular Weight	98,919 Da
3D Structure	ModBase 3D Structure for Q969V6
Immunogen Species	Human
Immunogen	Recombinant Human MKL/myocardin-like protein 1 protein (674-812AA)
Conjugate	Biotin
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-MKL1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MKL1 antibody	ELISA (EIA)
Related Product Information for anti-MKL1 antibody	MBS7114397 is an antibody targeting MKL1. Also known as MKL1 Antibody, Biotin Conjugated. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MKL1. It may not necessarily be applicable to this product.

NCBI GI #	544186096
NCBI GeneID	57591
NCBI Accession #	NP_001269589.1
UniProt Primary Accession #	Q969V6
UniProt Secondary Accession #	Q8TCL1; Q96SC5; Q96SC6; Q9P2B0
UniProt Related Accession #	Q969V6
GenBank Nucleotide #	NM_001282660.1
NCBI Official Full Name	myocardin-related transcription factor A 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	Myocardin-related transcription factor A
UniProt Synonym Protein Names	MKL/myocardin-like protein 1
Protein Family	MKL/myocardin-like protein
UniProt Gene Name	MRTFA
UniProt Synonym Gene Names	MRTF-ACurated
NCBI Protein Information	myocardin-related transcription factor A; MKL/myocardin-like protein 1
NCBI Summary for MKL1	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. [provided by RefSeq, Sep 2013]
UniProt Comments for MKL1	Transcription coactivator that associates with the serum response factor (SRF) transcription factor to control expression of genes regulating the cytoskeleton during development, morphogenesis and cell migration. The SRF-MRTFA complex activity responds to Rho GTPase-induced changes in cellular globular actin (G-actin) concentration, thereby coupling cytoskeletal gene expression to cytoskeletal dynamics. MRTFA binds G-actin via its RPEL repeats, regulating activity of the MRTFA-SRF complex. Activity is also regulated by filamentous actin (F-actin) in the nucleus.
Research Articles on MKL1	**1.** Taken together, these findings suggest that MKL1 and MKL2 are present at synapses and involved in dendritic spine maturation.
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