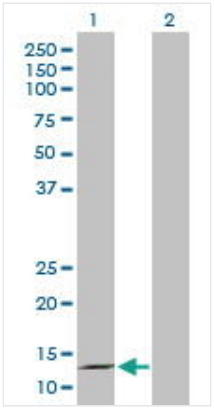
Midkine (MK) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Midkine (MK), Polyclonal Antibody
Full Product Name	Midkine (MK, Amphiregulin Associated Protein, ARAP, FLJ27379, Midgestation and Kidney Protein, MDK, MK1, Neurite Growth Promoting Factor 2, N
Product Gene Name	anti-MK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MDK.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, cent
Molecular Weight	9,512 Da
OMIM	162096
3D Structure	ModBase 3D Structure for P21741
Immunogen	Full length human MDK, aa1-143 (NP_001012333.1).
Immunogen Sequence	MQHRGFLLLTLLALLALTSAVAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGTCGAQTQRIRCRVPCNWKKEFGADCKYKFENWGACDG
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-MK antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-MK antibody	Western Blot (WB)
Application Notes for anti-MK antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MK antibody	Midkine (MK) is a 13kD heparin-binding polypeptide which enhances neurite outgrowth, neuronal cell survival and plasminogen activator activity. MK is activities are located on the C-terminal domain. Both domains consist of three antiparallel beta-strands, but the C-terminal domain has a long flexible ha MK is a member of a highly conserved, developmentally regulated human gene family. The gene product exhibits neurite outgrowth-promoting activity a maintenance. Expression of MK is predominant only for a short period from approximately one-half to two-thirds of the way through gestation; before ar

Other Notes	Small volumes of anti-MK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary 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 MK purchase	MBS6385458 is an antibody targeting MK. Also known as Midkine (MK, Amphiregulin Associated Protein, ARAP, FLJ27379, Midgestation and Kidney P Neurite Outgrowth Promoting Protein) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MK antibody
Western Blot analysis of MDK expression in transfected 293T cell line by MDK polyclonal antibody. Lane 1: MDK transfected lysate (15.6kD) Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	59894796
NCBI GeneID	4192
NCBI Accession #	NP_001012333.1
UniProt Primary Accession #	P21741
UniProt Secondary Accession #	Q2LEK4; Q9UCC7
UniProt Related Accession #	P21741
GenBank Nucleotide #	NM_001012333
NCBI Official Full Name	midkine isoform a
NCBI Official Synonym Full Names	midkine (neurite growth-promoting factor 2)
NCBI Official Symbol	MDK
NCBI Official Synonym Symbols	MK; ARAP; NEGF2
UniProt Protein Name	Midkine
UniProt Synonym Protein Names	Amphiregulin-associated protein; ARAP; Midgestation and kidney protein; Neurite outgrowth-promoting factor 2; Neurite outgrowth-promoting protein
Protein Family	Midkine
UniProt Gene Name	MDK
UniProt Synonym Gene Names	MK1; NEGF2; MK; ARAP
UniProt Entry Name	MK_HUMAN
NCBI Protein Information	midkine; amphiregulin-associated protein; midgestation and kidney protein; neurite outgrowth-promoting factor 2; retinoic acid inducible factor

NCBI Summary for MK	This gene encodes a member of a small family of secreted growth factors that binds heparin and responds to retinoic acid. The encoded protein promotes cell growth, migration, and angiogenesis, in particular during tumorigenesis. This gene has been targeted as a therapeutic for a variety of different disorders. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2012]
UniProt Comments for MK	MDK: Developmentally regulated, secreted growth factor homologous to pleiotrophin (PTN), which has heparin binding activity. Binds anaplastic lymphoma kinase (ALK) which induces ALK activation and subsequent phosphorylation of the insulin receptor substrate (IRS1), followed by the activation of mitogen-activated protein kinase (MAPK) and PI3-kinase, and the induction of cell proliferation. Involved in neointima formation after arterial injury, possibly by mediating leukocyte recruitment. Also involved in early fetal adrenal gland development. Belongs to the pleiotrophin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: cell projection; cytoplasm; extracellular region Molecular Function: heparin binding; growth factor activity Biological Process: response to drug; nervous system development; cell migration; Notch signaling pathway; dentate gyrus development; behavioral fear response; cerebellar granular layer development; short-term memory; adrenal gland development; positive regulation of transcription, DNA-dependent; response to glucocorticoid stimulus; signal transduction; positive regulation of cell division; response to wounding; cerebral cortex development; negative regulation of neuron apoptosis; cell differentiation; defecation; regulation of behavior
Research Articles on MK	**1.** Study presents novel MK functions and new upstream signaling effectors that induce its expression to promote PDAC.
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