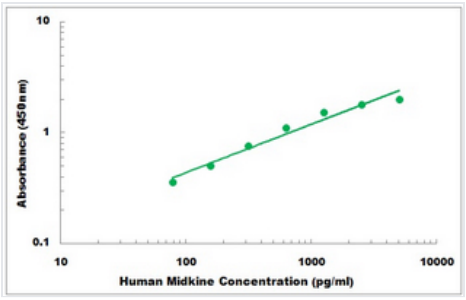
Midkine (MDK) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Midkine (MDK), ELISA Kit
Full Product Name	Human Midkine ELISA Kit
Product Gene Name	MDK elisa kit
Product Synonym Names	MK1; NEGF2; Midkine; MK; Amphiregulin-associated protein; ARAP; Midgestation and kidney protein; Neurite outgrowth-promoting factor 2; Neurite outgrowth-promoting protein
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma
Detection Range	78 pg/ml - 5000 pg/ml
Sensitivity	10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	9,512 Da
OMIM	162096
3D Structure	ModBase 3D Structure for P21741
Detection Method	Colorimetric
Applications Tested/Suitable for MDK elisa kit	Sandwich ELISA (SE)
Related Product Information for MDK elisa kit	Sandwich ELISA for quantitative detection of Human Midkine concentrations.
Other Notes	Small volumes of MDK elisa kit 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 MDK purchase	MBS824792 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Midkine (MDK) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MDK. The ELISA analytical biochemical technique of the MBS824792 kit is based on MDK antibody-MDK antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MDK antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MDK. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of MDK elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDK. 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_001012333.2
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; retinoic acid inducible factor; amphiregulin-associated protein; midgestation and kidney protein; neurite outgrowth-promoting factor 2
NCBI Summary for MDK	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 MDK	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, signal peptide; Secreted 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; adrenal gland development; short-term memory; cerebellar granular layer development; positive regulation of transcription, DNA-dependent; response to glucocorticoid stimulus; signal transduction; positive regulation of cell division; response to wounding; negative regulation of neuron apoptosis; cerebral cortex development; cell differentiation; defecation; regulation of behavior
Research Articles on MDK	**1.** MK might play an important role in the progression of HNSCC and may be a useful prognostic factor
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