

Human Midkine ELISA Kit | MDK elisa kit

Human Midkine PicoKine ELISA Kit

CATALOG #
AAA45914

REACTIVITY
Human

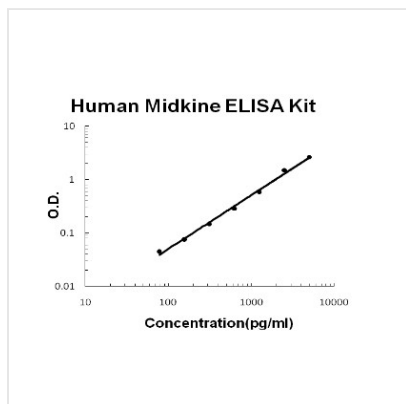
PRODUCT SYNONYMS

Midkine; Human Midkine PicoKine ELISA Kit; midkine (neurite growth-promoting factor 2); Amphiregulin associated protein; Amphiregulin-associated protein; ARAP; FLJ27379; Mdk; Midgestation and kidney protein; MK 1; MK; MK_HUMAN; MK1; NEGF 2; NEGF2; Neurite growth promoting factor 2; Neurite outgrowth promoting protein; Neurite outgrowth-promoting factor 2; Neurite outgrowth-promoting protein; Retinoic acid inducible factor; MDK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Midkine
Sequence Length	143
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	78pg/ml-5000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Midkine PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MDK elisa kit

Principle of the assay: human Midkine ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Midkine has been precoated onto 96-well plates. Standards(E.coli, K23-D143) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Midkine is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Midkine amount of sample captured in plate.

Background: Midkine(MK or MDK) also known as neurite growth-promoting factor 2(NEGF2) is a protein that in humans is encoded by the MDK gene. Midkine is a basic heparin-binding growth factor of low molecular weight, and forms a family with pleiotrophin(NEGF1, 46% homologous with MK). It is a nonglycosylated protein, composed of two domains held by disulfide bridges. It is a developmentally important retinoic acid-responsive gene product strongly induced during mid-gestation, hence the name midkine. Restricted mainly to certain tissues in the normal adult, it is strongly induced during oncogenesis, inflammation and tissue repair. MK is pleiotropic, capable of exerting activities such as cell proliferation, cell migration, angiogenesis and fibrinolysis. A molecular complex containing receptor-type tyrosine phosphatase zeta(PTPzeta), low density lipoprotein receptor-related protein(LRP1), anaplastic leukemia kinase (ALK) and syndecans is considered to be its receptor.

NCBI AND UNIPROT INFORMATION

NCBI GI #	127116
NCBI GeneID	4192
UniProt Accession #	P21741; Q2LEK4; Q9UCC7
Molecular Weight	9,512 Da
NCBI Official Full Name	Midkine
NCBI Official Synonym Full Names	midkine (neurite growth-promoting factor 2)
NCBI Official Symbol	MDK
NCBI Official Synonym Symbols	MK; ARAP; NEGF2
NCBI Protein Information	midkine; retinoic acid inducible factor; amphiregulin-associated protein; midgestation and kidney protein; neurite outgrowth-promoting factor 2
UniProt Protein Name	Midkine
UniProt Gene Name	MDK
UniProt Synonym Gene Names	MK1; NEGF2; MK; ARAP
UniProt Entry Name	MK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mdk-human-elisa-kits/midkine/45914>