

Datasheet for KOA0727**Human Midkine ELISA Kit****Overview**

Description:	Human Midkine AccuSignal ELISA Kit - KOA0727
Item No.:	KOA0727
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	78 pg/ml - 5000 pg/ml

Product Details

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(PTP ζ), low density lipoprotein receptor-related protein(LRP1), anaplastic leukemia kinase(ALK) and syndecans is considered to be its receptor.
Synonyms:	Amphiregulin-associated protein, ARAP, Mdk, Midgestation and kidney protein, Midkine, MK, MK_HUMAN, Neurite outgrowth-promoting factor 2, Neurite outgrowth-promoting protein
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	MDK
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: K23-D143
Purity/Specificity:	Natural and recombinant human Midkine. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P21741 • NCBI - NP_001012333.1 • GeneID - 4192 • KOA0727 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml human Midkine standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Midkine standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	78pg/ml-5000pg/ml
Other:	DOE: 2-8° C - 02/01/2021 -20° C - 08/01/2021

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

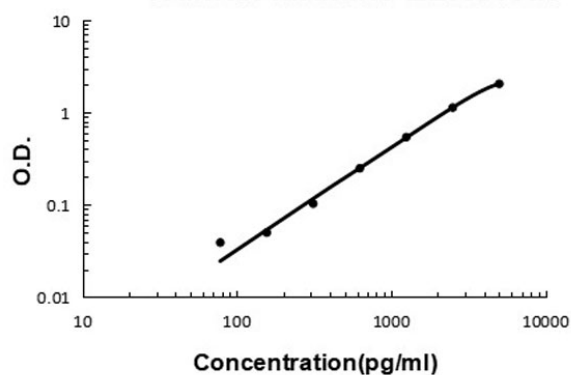
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

Human Midkine ELISA Kit



ELISA

Human Midkine ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.