Keratin Growth Factor (KGF) ELISA Kit for Camel

PRODUCT OVERVIEW

Product Name	Keratin Growth Factor (KGF), ELISA Kit
Full Product Name	Camel Keratin Growth Factor ELISA Kit
Product Gene Name	KGF elisa kit
Species Reactivity	Camel
Assay Type	Quantitative Sandwich
Detection Range	6.25pg/ml-200pg/ml
Sensitivity	1.0pg/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	53,704 Da
OMIM	148060
3D Structure	ModBase 3D Structure for P05787
Related Product Information for KGF elisa kit	Background: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of KGF (hereafter termed "analyte") in undiluted original Camel serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of KGF 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 KGF purchase	MBS056302 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Keratin Growth Factor (KGF) 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 KGF. The ELISA analytical biochemical technique of the MBS056302 kit is based on KGF antibody-KGF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect KGF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, KGF. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	4504919
NCBI GeneID	3856
NCBI Accession #	NP_002264.1
UniProt Primary Accession #	P05787
UniProt Secondary Accession #	Q14099; Q14716; Q14717; Q53GJ0; Q6DHW5; Q6GMY0; Q6P4C7; Q96J60; A8K4H3; B0AZN5; F8VXB4

UniProt Related Accession #	P05787
GenBank Nucleotide #	NM_002273.3
NCBI Official Full Name	keratin, type II cytoskeletal 8 isoform 2
NCBI Official Synonym Full Names	keratin 8
NCBI Official Symbol	KRT8
NCBI Official Synonym Symbols	K8; KO; CK8; CK-8; CYK8; K2C8; CARD2
UniProt Protein Name	Keratin, type II cytoskeletal 8
UniProt Synonym Protein Names	Cytokeratin-8; CK-8; Keratin-8; K8; Type-II keratin Kb8
UniProt Gene Name	KRT8
UniProt Synonym Gene Names	CYK8; CK-8; K8
UniProt Entry Name	K2C8_HUMAN
NCBI Protein Information	keratin, type II cytoskeletal 8; cytokeratin 8; cytokeratin-8; type-II keratin Kb8
NCBI Summary for KGF	This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]
UniProt Comments for KGF	K8: a type II cytoskeletal keratin. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Phosphorylation of keratins at specific sites affects their organization, assembly dynamics, and their interaction with signaling molecules. Phsophorylated by p38 kinase, regulating cellular keratin filament reorganization. Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Mutation of this protein is a risk factor for cryptogenic liver failure. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; dystrophin-associated glycoprotein complex; intermediate filament cytoskeleton; costamere; nuclear matrix; cytoplasm; keratin filament; intermediate filament; intercellular junction; Z disc; nucleus; sarcolemma Molecular Function: protein binding; protein complex binding; structural molecule activity Biological Process: tumor necrosis factor-mediated signaling pathway; viral reproduction; response to other organism; sarcomere organization; response to hydrostatic pressure Disease: Cirrhosis, Familial
Research Articles on KGF	**1.** An increased expression of cytokeratin 8 and weak of calponin in tunica media of saphenous vein grafts might be useful markers of unfavorable long-term prognosis in CABG patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/kgf-camel-elisa-kits/keratin-growth-factor/56302