Dickkopf-Related Protein 3 (DKK-3) ELISA Kit for Human

PRODUCT OVERVIEW

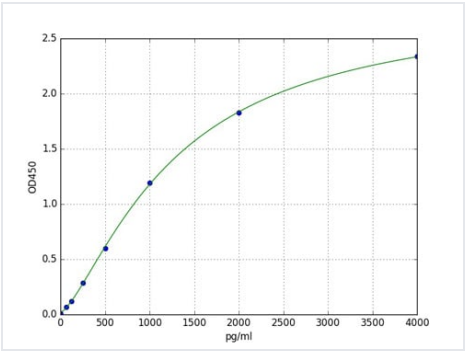
Product Name	Dickkopf-related protein 3 (DKK-3), ELISA Kit
Full Product Name	Human Dickkopf-related protein 3 ELISA Kit
Product Gene Name	DKK-3 elisa kit
Product Synonym Names	DKK-3/Dickkopf-3/Dkk3/REIC
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	62.5-4000pg/ml
Sensitivity	37.5pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	38,390 Da
OMIM	605416
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DKK-3 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-DKK-3 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-DKK-3 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 DKK-3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of DKK-3can be calculated.
Other Notes	Small volumes of DKK-3 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 DKK-3 purchase	MBS763640 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dickkopf-related protein 3 (DKK-3) 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 DKK-3. The ELISA analytical biochemical technique of the MBS763640 kit is based on DKK-3 antibody-DKK-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DKK-3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DKK-3. 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 Data & Standard Curve

Results of a typical standard run of a DKK-3 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	62.5	125	250	500	1000	2000	4000
Y	OD450	0.012	0.215	0.378	0.663	1.062	1.430	1.709	1.989

Typical Testing Data of DKK-3 elisa kit



Typical Standard Curve of DKK-3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DKK-3. It may not necessarily be applicable to this product.

NCBI GI #	66346689
NCBI GeneID	27122
NCBI Accession #	NP_001018067.1
UniProt Secondary Accession #	Q9ULB7; A8K1I2; D3DQW1
UniProt Related Accession #	Q9UBP4
GenBank Nucleotide #	NM_001018057.1
NCBI Official Full Name	dickkopf-related protein 3
NCBI Official Synonym Full Names	dickkopf WNT signaling pathway inhibitor 3
NCBI Official Symbol	DKK3
NCBI Official Synonym Symbols	RIG; REIC
UniProt Protein Name	Dickkopf-related protein 3
Protein Family	Dickkopf-related protein
UniProt Gene Name	DKK3
UniProt Synonym Gene Names	REIC; Dickkopf-3; Dkk-3; hDkk-3
UniProt Entry Name	DKK3_HUMAN
NCBI Protein Information	dickkopf-related protein 3
NCBI Summary for DKK-3	This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

UniProt Comments for DKK-3	DKK3: Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero- posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease. Belongs to the dickkopf family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11p15.2 Cellular Component: extracellular space Biological Process: adrenal gland development; anatomical structure morphogenesis; negative regulation of aldosterone biosynthetic process; negative regulation of transcription, DNA-dependent; Wnt receptor signaling pathway
Research Articles on DKK-3	**1.** REIC/Dkk-3 is a naturally circulating serum protein, the upregulation REIC/Dkk-3 protein expression could be a promising option for cancer therapy
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.
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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.

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