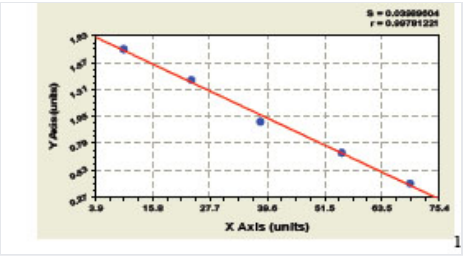
Cytokeratin 19 (CK 19) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CytoKeratin 19 (CK 19), ELISA Kit
Full Product Name	Human CytoKeratin 19 ELISA Kit
Product Gene Name	CK 19 elisa kit
Species Reactivity	Human
Assay Type	Competitive or Sandwich
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	50-1000pg/mL
Sensitivity	1.0pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	44,106 Da
OMIM	148020
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Intended Uses	This CK-19 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CK-19. This ELISA kit for research use only, not for therapeutic applications!
Product Categories/Family for CK 19 elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CK 19 elisa kit	**Principle of the assay:** CK-19 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CK-19 antibody and an CK-19-HRP conjugate. The assay sample and buffer are incubated together with CK-19-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CK-19 concentration since CK-19 from samples and CK-19-HRP conjugate compete for the anti-CK-19 antibody binding site. Since the number of sites is limited, as more sites are occupied by CK-19 from the sample, fewer sites are left to bind CK-19-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CK-19 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of CK 19 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 CK 19 purchase	MBS733487 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CytoKeratin 19 (CK 19) 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 CK 19. The ELISA analytical biochemical technique of the MBS733487 kit is based on CK 19 antibody-CK 19 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CK 19 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CK 19. 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 CK 19 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CK 19. It may not necessarily be applicable to this product.

NCBI GI #	13537138
NCBI Accession #	BAB40770.1
UniProt Secondary Accession #	Q5XG83; Q6NW33; Q7L5M9; Q96A53; Q96FV1; Q9BYF9; Q9P1Y4; B2R874
NCBI Official Full Name	cytokeratin 19, partial
UniProt Protein Name	Keratin, type I cytoskeletal 19
UniProt Synonym Protein Names	Cytokeratin-19; CK-19; Keratin-19; K19
Protein Family	Keratin
UniProt Gene Name	KRT19
UniProt Synonym Gene Names	CK-19; K19
UniProt Entry Name	K1C19_HUMAN
UniProt Comments for CK 19	K19: a type I cytoskeletal keratin. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Keratin 19 differs from all other IF proteins in lacking the C-terminal tail domain. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: dystrophin-associated glycoprotein complex; costamere; intermediate filament; Z disc; sarcolemma Molecular Function: protein binding; structural constituent of cytoskeleton; structural constituent of muscle; protein complex binding Biological Process: viral reproduction; response to estrogen stimulus; sarcomere organization
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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