Cytokeratin 19 (CK-19) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytokeratin 19 (CK-19), ELISA Kit
Full Product Name	Human Cytokeratin 19 (CK-19) ELISA Kit
Product Gene Name	CK-19 elisa kit
Product Synonym Gene Name	KRT19
Product Synonym Names	CK19; K19; K1CS; MGC15366; 40-kDa keratin intermediate filament; cytokeratin 19; keratin; type I cytoskeletal 19; keratin; type I; 40-kd
Species Reactivity	Human
Assay Type	Quantitive Sandwich
Samples	Serum, Plasma, Other Biological Fluids
Detection Range	0.312-20 ng/mL
Sensitivity	0.116 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Human KRT19. No significant cross-reactivity or interference between Human KRT19 and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Molecular Weight	44,106 Da
OMIM	J03607 Genomic DNA
3D Structure	ModBase 3D Structure for P08727
Detection Wavelength	450 nm
Intra-assay Precision (Precision within an assay)	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision (Precision between assays)	Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
CV (%)	= SD/meanX100
Intra-Assay	CV
Inter-Assay	CV
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for CK-19 elisa kit	Description: This assay employs a two-site sandwich ELISA to quantitate KRT19 in samples. An antibody specific for KRT19 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any KRT19 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRT19 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KRT19 bound in the initial step. The color development is stopped and the intensity of the color is measured. Overview: Keratin, type I cytoskeletal 19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. 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 envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21.Keratin 19 is a type I cytokeratin.
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	MBS287566 is a ready-to-use microwell, strip-or-full 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 MBS287566 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	24234699
NCBI GeneID	3880
NCBI Accession #	NP_002267.2
UniProt Primary Accession #	P08727
UniProt Secondary Accession #	Q5XG83; Q6NW33; Q7L5M9; Q96A53; Q96FV1; Q9BYF9; Q9P1Y4; B2R874
UniProt Related Accession #	P08727
GenBank Nucleotide #	NM_002276.4
NCBI Official Full Name	keratin, type I cytoskeletal 19
NCBI Official Synonym Full Names	keratin 19
NCBI Official Symbol	KRT19
NCBI Official Synonym Symbols	K19; CK19; K1CS
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
NCBI Protein Information	keratin, type I cytoskeletal 19

NCBI Summary for CK-19	The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. 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. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2008]
UniProt Comments for CK-19	Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.
Research Articles on CK-19	**1.** Immunohistochemical assessment of both CK19 and SCCAg status in histologically negative sentinel lymph nodes may be a valuable approach for predicting recurrence and survival after curative surgery for cervical squamous cell carcinoma.
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