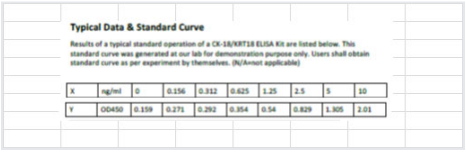
Cytokeratin 18 (CK-18/KRT18) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytokeratin 18 (CK-18/KRT18), ELISA Kit
Full Product Name	Human Cytokeratin 18 ELISA Kit
Product Gene Name	CK-18/KRT18 elisa kit
Product Synonym Names	KRT18/CK-18/Cytokeratin 18/Keratin; type I cytoskeletal 18/Keratin-18/K18/Cell proliferation-inducing gene 46 protein/Cytokeratin-18
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of CK-18/KRT18 . No significant cross-reactivity or interference between CK-18/KRT18 and analogues was observed.
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
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CK- 18/KRT18 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CK- 18/KRT18 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Molecular Weight	48,058 Da
OMIM	148070
3D Structure	ModBase 3D Structure for P05783
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CK-18/KRT18 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- CK-18/KRT18 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- CK- 18/KRT18 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed 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 CK-18/KRT18 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CK- 18/KRT18 can be calculated.
Other Notes	Small volumes of CK-18/KRT18 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-18/KRT18 purchase	MBS761380 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytokeratin 18 (CK-18/KRT18) 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-18/KRT18. The ELISA analytical biochemical technique of the MBS761380 kit is based on CK-18/KRT18 antibody-CK-18/KRT18 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CK-18/KRT18 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CK-18/KRT18. 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-18/KRT18 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CK-18/KRT18. It may not necessarily be applicable to this product.

NCBI GI #	34037
NCBI GeneID	3875
NCBI Accession #	CAA31375.1
UniProt Primary Accession #	P05783
UniProt Secondary Accession #	Q53G38; Q5U0N8; Q9BW26
UniProt Related Accession #	P05783
NCBI Official Full Name	cytokeratin 18
NCBI Official Synonym Full Names	keratin 18, type I
NCBI Official Symbol	KRT18
NCBI Official Synonym Symbols	K18; CK-18; CYK18
UniProt Protein Name	Keratin, type I cytoskeletal 18
UniProt Synonym Protein Names	Cell proliferation-inducing gene 46 protein; Cytokeratin-18; CK-18; Keratin-18; K18
Protein Family	Keratin
UniProt Gene Name	KRT18
UniProt Synonym Gene Names	CYK18; CK-18; K18
UniProt Entry Name	K1C18_HUMAN
NCBI Protein Information	keratin, type I cytoskeletal 18
NCBI Summary for CK-18/KRT18	KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for CK-18/KRT18	K18: 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 18 and its filament partner keratin 8 are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Defects are a cause of cryptogenic cirrhosis. Protein type: Nucleolus; Cytoskeletal Chromosomal Location of Human Ortholog: 12q13 Cellular Component: cytoplasm; intermediate filament; keratin filament; microtubule organizing center; nucleolus; perinuclear region of cytoplasm Molecular Function: protein binding; structural molecule activity Biological Process: anatomical structure morphogenesis; cell cycle; Golgi to plasma membrane CFTR protein transport; intermediate filament cytoskeleton organization and biogenesis; negative regulation of apoptosis; tumor necrosis factor-mediated signaling pathway; viral reproduction Disease: Cirrhosis, Familial
Research Articles on CK-18/KRT18	**1.** No evidence of association between polymorphisms in KRT18 and sporadic amyotrophic lateral sclerosis in Han Chinese
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