Keratin 18 (KRT18) Recombinant Protein

PRODUCT OVERVIEW

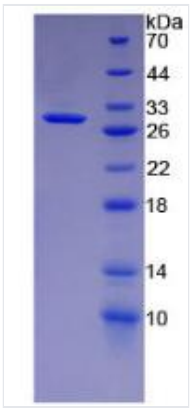
Product Name	Keratin 18 (KRT18), Recombinant Protein
Full Product Name	Recombinant Keratin 18 (KRT18)
Product Gene Name	KRT18 recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and S-tag, its sequence is listed below. MHHHHHHSSG LVPRGSGMKE TAAAKFERQH MDSPDLGTDD DDKAMADIGS EF- DAP KSQDLAKIMA DIRAQYDELA RKNREELDKY WSQQIEESTT VVTTQSAEVG AAETTLTELR RTVQSLEIDL DSMRNLKASL ENSLREVEAR YALQMEQLNG ILLHLESELA QTRAEGQRQA QEYEALLNIK VKLEAEIATY RRLLEDGEDF NLGDAL
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Biotin Conjugated Antibody: KRT18 (MBS2002695) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Unconjugated Antibody: KRT18 (MBS2003165) Immunogen: KRT18 (MBS2011934)
Matching Pairs	FITC Conjugated Antibody: KRT18 (MBS2016703) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Unconjugated Antibody: KRT18 Clone #E4 (MBS2025755) Immunogen: KRT18 (MBS2011934)
Matching Pairs	APC-CY7 Conjugated Antibody: KRT18 (MBS2052863) Immunogen: KRT18 (MBS2011934)
Matching Pairs	APC-CY7 Conjugated Antibody: KRT18 Clone #E4 (MBS2052864) Immunogen: KRT18 (MBS2011934)
Matching Pairs	PE Conjugated Antibody: KRT18 (MBS2052865) Immunogen: KRT18 (MBS2011934)
Matching Pairs	PE Conjugated Antibody: KRT18 Clone #E4 (MBS2052866) Immunogen: KRT18 (MBS2011934)
Matching Pairs	APC Conjugated Antibody: KRT18 (MBS2052867) Immunogen: KRT18 (MBS2011934)
Matching Pairs	APC Conjugated Antibody: KRT18 Clone #E4 (MBS2052868) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Cy3 Conjugated Antibody: KRT18 (MBS2052869) Immunogen: KRT18 (MBS2011934)

Matching Pairs	Cy3 Conjugated Antibody: KRT18 Clone #E4 (MBS2052870) Immunogen: KRT18 (MBS2011934)
Matching Pairs	FITC Conjugated Antibody: KRT18 Clone #E4 (MBS2052871) Immunogen: KRT18 (MBS2011934)
Matching Pairs	HRP Conjugated Antibody: KRT18 (MBS2052872) Immunogen: KRT18 (MBS2011934)
Matching Pairs	HRP Conjugated Antibody: KRT18 Clone #E4 (MBS2052873) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Biotin Conjugated Antibody: KRT18 Clone #E4 (MBS2091047) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2140485) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2141102) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2141665) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2142066) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2142683) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2143246) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2143646) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2144262) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2144825) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2145225) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2145842) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2146405) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2146806) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2147423) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2147986) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2148387) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2149004) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2149567) Immunogen: KRT18 (MBS2011934)

Matching Pairs	Antibody: CK18 Clone #E6 (MBS2149967) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2150584) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2151147) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #E6 (MBS2151547) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #F1 (MBS2152159) Immunogen: KRT18 (MBS2011934)
Matching Pairs	Antibody: CK18 Clone #C2 (MBS2152722) Immunogen: KRT18 (MBS2011934)
Molecular Weight	23.8kDa
Chromosome Location	Chromosome: 12; NC_000012.11 (53342655..53346690). Location: 12q13
OMIM	148070
3D Structure	ModBase 3D Structure for P05783
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Organism	Homo sapiens (Human)
Expression System	Prokaryotic expression
Residues	Asp238~Leu396 (Accession # P05783) with two N-terminal Tags, His-tag and S-tag
Subcellular Location	Cytoplasm, perinuclear region. Nucleus, nucleolus
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted Isoelectric Point	4.8
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for KRT18 recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for KRT18 recombinant protein	MBS2011934 is a recombinant protein targeting KRT18. Also known as Recombinant Keratin 18 (KRT18). Host: E Coli.
Other Notes	Small volumes of KRT18 recombinant protein 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.

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                                        DAP KSQDLAKIMA
DIRAQYDELA RKNREELDKY WSQQIEESTT VVTTQSAEVG AAETTLTELR
RTVQSLEIDL DSMRNLKASL ENSLREVEAR YALQMEQLNG ILLHLESELA
QTRAEGQRQA QEYEALLNIK VKLEAEIATY RRLLEDGEDF NLGDAL
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Sequence Information of KRT18 recombinant protein



SDS-Page of KRT18 recombinant protein

ADDITIONAL DETAILS

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

NCBI GI #	4557888
NCBI GeneID	3875
NCBI Accession #	NP_000215.1
UniProt Primary Accession #	P05783
UniProt Secondary Accession #	Q53G38; Q5U0N8; Q9BW26
UniProt Related Accession #	P05783
GenBank Nucleotide #	NM_000224.2
NCBI Official Full Name	keratin, type I cytoskeletal 18
NCBI Official Synonym Full Names	keratin 18
NCBI Official Symbol	KRT18
NCBI Official Synonym Symbols	K18; 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
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; CK-18; keratin-18; cytokeratin 18; cytokeratin-18; cell proliferation-inducing protein 46; cell proliferation-inducing gene 46 protein
NCBI Summary for 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 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: perinuclear region of cytoplasm; keratin filament; cytoplasm; nucleolus; intermediate filament; microtubule organizing center Molecular Function: protein binding; structural molecule activity Biological Process: anatomical structure morphogenesis; tumor necrosis factor-mediated signaling pathway; viral reproduction; intermediate filament cytoskeleton organization and biogenesis; cell cycle; Golgi to plasma membrane CFTR protein transport; negative regulation of apoptosis Disease: Cirrhosis, Familial
Research Articles on KRT18	**1.** CK18 is a promising non-invasive biomarker for nonalcoholic steatohepatitis in children with fatty liver disease.
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Online datasheet: https://www.mybiosource.com/recombinant-protein/keratin-18-krt18/2011934