Cytokeratin 18 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Cytokeratin 18 (KRT18), Blocking Peptide
Full Product Name	Cytokeratin 18 Blocking Peptide
Product Gene Name	KRT18 blocking peptide
Product Synonym Names	Cell proliferation inducing gene 46 protein; Cell proliferation inducing protein 46; Cell proliferation-inducing gene 46 protein; CK 18; CK-18; CK18; CYK 18; CYK18; Cytokeratin 18; Cytokeratin endo B; Cytokeratin-18; K 18; K18; K1C18_HUMAN; KA18; Keratin 18; Keratin 18, type I; Keratin D; keratin, type I cytoskeletal 18; Keratin-18; Krt18
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Cytokeratin 18 peptide (MBS9617951) is used for blocking the activity of Cytokeratin 18 antibody (MBS9613870)
Molecular Weight	48,058 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (53342655..53346685). Location: 12q13
OMIM	148070
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for KRT18 blocking peptide	Blocking/Control
Related Product Information for KRT18 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of KRT18 blocking peptide 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 KRT18 purchase	MBS9617951 is a blocking peptide targeting KRT18. Also known as Cytokeratin 18 Blocking Peptide.

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: Cytoskeletal; Nucleolus Chromosomal Location of Human Ortholog: 12q13 Cellular Component: perinuclear region of cytoplasm; keratin filament; cytoplasm; nucleolus; microtubule organizing center; intermediate filament 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.** K8/18 expression can influence the phenotype of epithelial cancer cells at a transcriptional level and supports the hypothesis that keratins play an active role in cancer progression.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/krt18-blocking-peptide/cytokeratin-18/9617951