KRT16 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	KRT16, Lysate
Full Product Name	Human KRT16 Protein Lysate
Product Gene Name	KRT16 lysate
Product Synonym Names	KRT16; CK16; FNEPPK; K16; K1CP; KRT16A; NEPPK; PC1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	53.7 kDa (496aa)
OMIM	144200
3D Structure	ModBase 3D Structure for P08779
Related Product Information for KRT16 lysate	Human KRT16 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of KRT16 lysate 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 KRT16 purchase	MBS8414209 is a lysate targeting KRT16. Also known as Human KRT16 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT16. It may not necessarily be applicable to this product.

NCBI GI #	24430192
NCBI GeneID	3868
NCBI Accession #	NP_005548
UniProt Primary Accession #	P08779
UniProt Secondary Accession #	P30654; Q16402; Q9UBG8; A8K488
UniProt Related Accession #	P08779
GenBank Nucleotide #	NM_005557
NCBI Official Full Name	keratin, type I cytoskeletal 16
NCBI Official Synonym Full Names	keratin 16
NCBI Official Symbol	KRT16
NCBI Official Synonym Symbols	K16; PC1; CK16; K1CP; NEPPK; FNEPPK; KRT16A
UniProt Protein Name	Keratin, type I cytoskeletal 16
UniProt Synonym Protein Names	Cytokeratin-16; CK-16; Keratin-16

Protein Family	Keratin
UniProt Gene Name	KRT16
UniProt Synonym Gene Names	KRT16A; CK-16; K16
UniProt Entry Name	K1C16_HUMAN
NCBI Protein Information	keratin, type I cytoskeletal 16
NCBI Summary for KRT16	The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains and are clustered in a region of chromosome 17q12-q21. This keratin has been coexpressed with keratin 14 in a number of epithelial tissues, including esophagus, tongue, and hair follicles. Mutations in this gene are associated with type 1 pachyonychia congenita, non-epidermolytic palmoplantar keratoderma and unilateral palmoplantar verrucous nevus. [provided by RefSeq, Jul 2008]
UniProt Comments for KRT16	K16: 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. There are two types of cytoskeletal and microfibrillar keratin: type I (acidic; 40-55 kDa) [K9 to K20] and type II (neutral to basic; 56-70 kDa) [K1 to K8]. Both a basic and an acidic keratin are required for filament assembly. Generally associates with K6. K16 and K17 are coexpressed only in pathological situations such as metaplasias and carcinomas of the uterine cervix and in psoriasis vulgaris. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: cytoskeleton; intermediate filament; nucleus Molecular Function: protein binding; structural constituent of cytoskeleton Biological Process: epidermis development; intermediate filament cytoskeleton organization and biogenesis; cytoskeleton organization and biogenesis; keratinocyte migration; hair cycle; keratinocyte differentiation; cell proliferation; keratinization; morphogenesis of an epithelium; innate immune response; inflammatory response; negative regulation of cell migration; aging Disease: Palmoplantar Keratoderma, Nonepidermolytic, Focal; Pachyonychia Congenita 1
Research Articles on KRT16	**1.** inflammatory cytokines promoted Nrf2 nuclear translocation in psoriatic epidermis, which led to elevated expression of K6, K16, and K17, thus promoting keratinocyte proliferation and contributing to the pathogenesis of psoriasis.
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/lysate/krt16/8414209