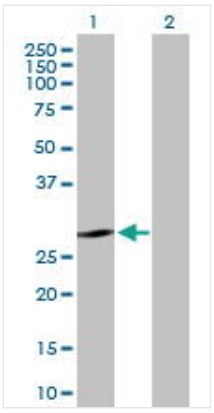
KLK7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KLK7, Polyclonal Antibody
Full Product Name	KLK7 (Kallikrein-7, hK7, Serine Protease 6, Stratum Corneum Chymotryptic Enzyme, hSCCE, PRSS6, SCCE) (FITC)
Product Gene Name	anti-KLK7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human KLK7.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	19,887 Da
OMIM	604438
3D Structure	ModBase 3D Structure for P49862
Immunogen	Full length human KLK7, aa1-253 (NP_005037.1).
Immunogen Sequence	MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGGVLVNERWVLTAAHCKMNEYTVHLGSDTLGDRRAQRIKASKSFR
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-KLK7 antibody	Antibodies; Kallikrein
Applications Tested/Suitable for anti-KLK7 antibody	Western Blot (WB)
Application Notes for anti-KLK7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-KLK7 antibody	May catalyze the degradation of intercellular cohesive structures in the cornified layer of the skin in the continuous shedding of cells from the skin surfa inflammatory cytokines.
Other Notes	Small volumes of anti-KLK7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa

Searchable Terms for KLK7 purchase	MBS6383743 is an antibody targeting KLK7. Also known as KLK7 (Kallikrein-7, hK7, Serine Protease 6, Stratum Corneum Chymotryptic Enzyme, hSC



Western Blot (WB) of anti-KLK7 antibody
Western Blot analysis of KLK7 expression in transfected 293T cell line by KLK7 polyclonal antibody. Lane 1: KLK7 transfected lysate (27.5kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK7. It may not necessarily be applicable to this product.

NCBI GI #	4826950
NCBI GeneID	5650
NCBI Accession #	NP_005037.1
UniProt Primary Accession #	P49862
UniProt Secondary Accession #	Q8N5N9; Q8NFV7; A8K0U5
UniProt Related Accession #	P49862
GenBank Nucleotide #	NM_005046.2
NCBI Official Full Name	kallikrein-7 isoform 1 preproprotein
NCBI Official Synonym Full Names	kallikrein related peptidase 7
NCBI Official Symbol	KLK7
NCBI Official Synonym Symbols	hK7; SCCE; PRSS6
UniProt Protein Name	Kallikrein-7
UniProt Synonym Protein Names	Serine protease 6; Stratum corneum chymotryptic enzyme
Protein Family	Glandular kallikrein
UniProt Gene Name	KLK7
UniProt Synonym Gene Names	PRSS6; SCCE; hK7; hSCCE
UniProt Entry Name	KLK7_HUMAN
NCBI Protein Information	kallikrein-7

NCBI Summary for KLK7	This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011]
UniProt Comments for KLK7	KLK7: May catalyze the degradation of intercellular cohesive structures in the cornified layer of the skin in the continuous shedding of cells from the skin surface. Specific for amino acid residues with aromatic side chains in the P1 position. SCCE cleaves insulin B chain at '6-Leu-|-Cys-7', '16-Tyr-|-Leu-17', '25-Phe-|-Tyr-26' and '26-Tyr-|-Thr-27'. Could play a role in the activation of precursors to inflammatory cytokines. Belongs to the peptidase S1 family. Kallikrein subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.21.35; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19q13.41 Cellular Component: extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; epidermis development; proteolysis
Research Articles on KLK7	**1.** KLK7 is differentially expressed in lesional biopsy specimens from patients with atopic eczema relative to normal skin
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