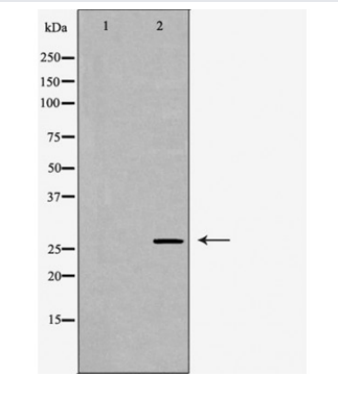
# KLK7 Antibody

## PRODUCT OVERVIEW

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| **Product Name** | KLK7, Antibody |
| **Full Product Name** | KLK7 Antibody |
| **Product Gene Name** | anti-KLK7 antibody |
| **Product Synonym Names** | hK7; SCCE; PRSS6 |
| **Species Reactivity** | Human |
| **Form/Format** | In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Immunogen affinity purified |
| **Specificity** | KLK7 Antibody detects endogenous levels of total KLK7 |
| **Preparation and Storage** | Store at-20 degree C for 1 year |
| **Molecular Weight** | 27kDa |
| **OMIM** | 604438 |
| **3D Structure** | ModBase 3D Structure for P49862 |
| **Immunogen** | Recombinant protein of human KLK7 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-KLK7 antibody** | Western Blot (WB), Immunohistochemistry (IHC) |
| **Application Notes for anti-KLK7 antibody** | WB: 1:500-1:2000<br>IHC: 1:50-1:200 |
| **Related Product Information for anti-KLK7 antibody** | 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. |
| **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 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 KLK7 purchase** | MBS8516818 is an antibody targeting KLK7. Also known as KLK7 Antibody. Reactive in Human. |




**Western Blot (WB) of anti-KLK7 antibody**
Western blot analysis of extracts of various celllines, using KLK7 antibody.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 333609286 |
| **NCBI GeneID** | 5650 |
| **NCBI Accession #** | NP_001193982.1 |
| **UniProt Primary Accession #** | P49862 |
| **UniProt Secondary Accession #** | Q8N5N9; Q8NFV7; A8K0U5 |
| **UniProt Related Accession #** | P49862 |
| **GenBank Nucleotide #** | NM_001207053.1 |
| **NCBI Official Full Name** | kallikrein-7 isoform 2 |
| **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; hSCCE |
| **Protein Family** | Glandular kallikrein |
| **UniProt Gene Name** | KLK7 |
| **UniProt Synonym Gene Names** | PRSS6; SCCE; hK7; hSCCE |
| **NCBI Protein Information** | kallikrein-7 |
| **UniProt Comments for 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. Cleaves insulin A chain at '14-Tyr-\|-Gln-15' and 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. |
| **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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