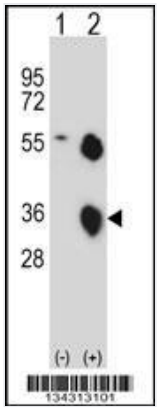
KLK8 Antibody – Rabbit Polyclonal

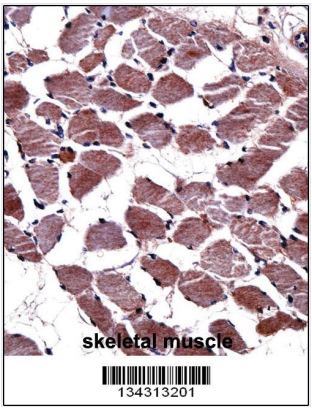
PRODUCT OVERVIEW

Product Name	KLK8, Polyclonal Antibody
Full Product Name	KLK8, NT (KLK8, NRPN, PRSS19, TADG14, Kallikrein-8, Neuropsin, Ovasin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein) (Biotin)
Product Gene Name	anti-KLK8 antibody
Product Synonym Names	KLK8; NRPN; PRSS19; TADG14; Kallikrein-8; Neuropsin; Ovasin; Serine protease 19; Serine protease TADG-14; Tumor-associated differentially expressed gene 14 protein
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 Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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 store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	3,653 Da
OMIM	605644
3D Structure	ModBase 3D Structure for O60259
Immunogen	KLK8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-38 amino acids from the N-terminal region of human KLK8.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-KLK8 antibody	Antibodies; Kallikrein
Applications Tested/Suitable for anti-KLK8 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-KLK8 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-KLK8 antibody	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternate splicing of this gene results in four transcript variants encoding four different isoforms. The isoforms exhibit distinct patterns of expression that suggest roles in brain plasticity and ovarian cancer.
Product References and Citations for anti-KLK8 antibody	Planque, C., et al. Clin. Chem. 56(6):987-997(2010). Klein, R.J., et al. Cancer Prev Res (Phila) 3(5):611-619(2010). Emami, N., et al. Biol. Chem. 390(9):921-929(2009). Brattsand, M., et al. J. Invest. Dermatol. 129(7):1656-1665(2009). Darling, M.R., et al. Head Neck Pathol 2(3):169-174(2008).

Other Notes	Small volumes of anti-KLK8 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 KLK8 purchase	MBS6314306 is an antibody targeting KLK8. Also known as KLK8, NT (KLK8, NRPN, PRSS19, TADG14, Kallikrein-8, Neuropsin, Ovasin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-KLK8 antibody
Western blot analysis of KLK8 (arrow) using rabbit polyclonal KLK8 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the KLK8 gene.



Immunohistochemistry (IHC) of anti-KLK8 antibody
KLK8 Antibody (N-term) (AP14391a)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of KLK8 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK8. It may not necessarily be applicable to this product.

NCBI GI #	21464131
NCBI GeneID	11202
NCBI Accession #	NP_653090.1
NCBI Related Accession #	NP_653088.1
UniProt Primary Accession #	O60259
UniProt Secondary Accession #	Q5V9X1; Q5V9X2; Q8IW69; Q9HCB3; Q9NR68; Q9NR69; Q9UIL9; Q9UQ47
UniProt Related Accession #	O60259
GenBank Nucleotide #	NM_144507.2
NCBI Official Full Name	kallikrein-8 isoform 4
NCBI Official Synonym Full Names	kallikrein-related peptidase 8
NCBI Official Symbol	KLK8
NCBI Official Synonym Symbols	NP; HNP; NRPN; PRSS19; TADG14
UniProt Protein Name	Kallikrein-8
UniProt Synonym Protein Names	Neuropsin; NP; Ovasin; Serine protease 19; Serine protease TADG-14; Tumor-associated differentially expressed gene 14 protein
Protein Family	Kallikrein
UniProt Gene Name	KLK8
UniProt Synonym Gene Names	NRPN; PRSS19; TADG14; hK8; NP
UniProt Entry Name	KLK8_HUMAN

NCBI Protein Information	kallikrein-8; ovasin; serine protease 19; serine protease TADG-14; tumor-associated differentially expressed gene 14 protein
UniProt Comments for KLK8	KLK8: Serine protease which is capable of degrading a number of proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Also cleaves L1CAM in response to increased neural activity. Induces neurite outgrowth and fasciculation of cultured hippocampal neurons. Plays a role in the formation and maturation of orphan and small synaptic boutons in the Schaffer- collateral pathway, regulates Schaffer-collateral long-term potentiation in the hippocampus and is required for memory acquisition and synaptic plasticity. Involved in skin desquamation and keratinocyte proliferation. Plays a role in the secondary phase of pathogenesis following spinal cord injury. Belongs to the peptidase S1 family. Kallikrein subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; EC 3.4.21.118; Protease; Secreted; Cell development/differentiation Chromosomal Location of Human Ortholog: 19q13 Cellular Component: extracellular space; cytoplasm Molecular Function: protein binding; serine-type endopeptidase activity Biological Process: cell death; negative regulation of myelination; negative regulation of axon regeneration; synapse organization and biogenesis; response to wounding; regulation of synapse organization and biogenesis; keratinocyte proliferation; proteolysis; neurite morphogenesis; memory
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