KLK10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KLK10, Polyclonal Antibody
Full Product Name	KLK10, NT (KLK10, NES1, PRSSL1, Kallikrein-10, Normal epithelial cell-specific 1, Protease serine-like 1) (MaxLight 405)
Product Gene Name	anti-KLK10 antibody
Product Synonym Names	KLK10; NES1; PRSSL1; Kallikrein-10; Normal epithelial cell-specific 1; Protease serine-like 1
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 MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	602673
3D Structure	ModBase 3D Structure for O43240
Immunogen	KLK10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-51 amino acids from the N-terminal region of human KLK10.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-KLK10 antibody	Antibodies; Kallikrein
Applications Tested/Suitable for anti-KLK10 antibody	Western Blot (WB), FLISA
Application Notes for anti-KLK10 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-KLK10 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. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq].
Product References and Citations for anti-KLK10 antibody	Batra, J., et al. Int. J. Gynecol. Cancer 20(4):529-536(2010). Klein, R.J., et al. Cancer Prev Res (Phila) 3(5):611-619(2010). Papageorgis, P., et al. Cancer Res. 70(3):968-978(2010). Lu, C.Y., et al. Genes Chromosomes Cancer 48(12):1057-1068(2009). Sardana, G., et al. Clin. Biochem. 42 (13-14), 1483-1486 (2009).

Other Notes	Small volumes of anti-KLK10 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 KLK10 purchase	MBS6314265 is an antibody targeting KLK10. Also known as KLK10, NT (KLK10, NES1, PRSSL1, Kallikrein-10, Normal epithelial cell-specific 1, Protease serine-like 1) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK10. It may not necessarily be applicable to this product.

NCBI GI #	22208982
NCBI GeneID	5655
NCBI Accession #	NP_002767.2
UniProt Primary Accession #	O43240
UniProt Related Accession #	O43240
GenBank Nucleotide #	NP_002767.2
NCBI Official Full Name	kallikrein-10 preproprotein
NCBI Official Synonym Full Names	kallikrein related peptidase 10
NCBI Official Symbol	KLK10
NCBI Official Synonym Symbols	NES1; PRSSL1
UniProt Protein Name	Kallikrein-10
UniProt Synonym Protein Names	Normal epithelial cell-specific 1; Protease serine-like 1
Protein Family	Glandular kallikrein
UniProt Gene Name	KLK10
UniProt Synonym Gene Names	NES1; PRSSL1
UniProt Entry Name	KLK10_HUMAN
NCBI Protein Information	kallikrein-10
NCBI Summary for KLK10	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. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for KLK10	KLK10: Has a tumor-suppressor role for NES1 in breast and prostate cancer. Belongs to the peptidase S1 family. Kallikrein subfamily. Protein type: Tumor suppressor; Secreted; Secreted, signal peptide; EC 3.4.21.-; Protease Chromosomal Location of Human Ortholog: 19q13 Cellular Component: extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: proteolysis; cell cycle
Research Articles on KLK10	**1.** findings show that KLK10 promotes trastuzumab resistance, at least in part, through the PI3K/AKT signaling pathway, suggesting that KLK10 is a potentially target to overcome trastuzumab resistance, and the combination might overcome trastuzumab resistance in KLK10-overexpressed gastric cancer patients.

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