KLK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KLK2, Polyclonal Antibody
Full Product Name	KLK2 Antibody
Product Gene Name	anti-KLK2 antibody
Product Synonym Names	hK2; hGK-1; KLK2A2
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total KLK2 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	28,671 Da
OMIM	147960
3D Structure	ModBase 3D Structure for P20151
Immunogen	Synthetic peptide corresponding to residues near the C terminal of human kallikrein-related peptidase 2
Product Categories/Family for anti-KLK2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KLK2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-KLK2 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300
Related Product Information for anti-KLK2 antibody	This gene encodes a member of the grandular kallikrein protein family. Kallikreins are a subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein encoded by this gene is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. This protein is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results in both coding and non-coding transcript variants
Other Notes	Small volumes of anti-KLK2 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 KLK2 purchase	MBS8590282 is an antibody targeting KLK2. Also known as KLK2 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK2. It may not necessarily be applicable to this product.

NCBI GI #	5031829
NCBI GeneID	3817
NCBI Accession #	NP_005542.1
UniProt Primary Accession #	P20151
UniProt Secondary Accession #	Q15946; Q9UJZ9; B4DU93; B4DUB0; F5H8L3
UniProt Related Accession #	P20151
GenBank Nucleotide #	NM_005551.4
NCBI Official Full Name	kallikrein-2 isoform 1 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 2
NCBI Official Symbol	KLK2
NCBI Official Synonym Symbols	hK2; hGK-1; KLK2A2
UniProt Protein Name	Kallikrein-2
UniProt Synonym Protein Names	Glandular kallikrein-1; hGK-1; Tissue kallikrein-2
Protein Family	Blarinasin
UniProt Gene Name	KLK2
UniProt Synonym Gene Names	hGK-1
UniProt Entry Name	KLK2_HUMAN
NCBI Protein Information	kallikrein-2; tissue kallikrein-2; glandular kallikrein 2; glandular kallikrein-1; kallikrein 2, prostatic
NCBI Summary for KLK2	This gene encodes a member of the grandular kallikrein protein family. Kallikreins are a subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein encoded by this gene is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. This protein is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results in both coding and non-coding transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for KLK2	KLK2: Glandular kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin. Belongs to the peptidase S1 family. Kallikrein subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.21.35 Chromosomal Location of Human Ortholog: 19q13.41 Cellular Component: extracellular region Molecular Function: serine-type endopeptidase activity Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; proteolysis
Research Articles on KLK2	**1.** Predictions based on levels of four kallikrein markers, including KLK2, in blood distinguish between pathologically insignificant and aggressive disease after radical prostatectomy with good accuracy.
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