KLK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KLK1, Polyclonal Antibody
Full Product Name	KLK1 (m.KLK1, Klk-6, Klk6, mGK-6, Glandular kallikrein K1, KAL-B, KLKR, Renal kallikrein, Tissue kallikrein-6) (MaxLight 550)
Product Gene Name	anti-KLK1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes mouse m.KLK1. No crossreactivity with other proteins.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28,775 Da
3D Structure	ModBase 3D Structure for P15947
Immunogen	E. coli-derived mouse KLK1 recombinant protein (Position: I25-D261).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-KLK1 antibody	Antibodies; Kallikrein
Applications Tested/Suitable for anti-KLK1 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-KLK1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-KLK1 antibody	KLK1(KALLIKREIN 1), also called KLKR, is a protein that in humans is encoded by the KLK1 gene. KLK1 is a member of the peptidase S1 family. KLK1 is a serine protease that generates Lys-bradykinin by specific proteolysis of kininogen-1. The KLK1 gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19 and its exact cytogenetic location is 19q13.33. The KLK1 gene contains 5 coding exons. And KLK1 is the most centromeric gene in the cluster. Mice lacking tissue kallikrein are unable to generate significant levels of kinins in most tissues and develop cardiovascular abnormalities early in adulthood despite normal blood pressure. The protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen.
Product References and Citations for anti-KLK1 antibody	1. Azizi, M., Boutouyrie, P., Bissery, A., Agharazii, M., Verbeke, F., Stern, N., Bura-Riviere, A., Laurent, S., Alhenc-Gelas, F., Jeunemaitre, X. Arterial and renal consequences of partial genetic deficiency in tissue kallikrein activity in humans. J. Clin. Invest. 115: 780-787, 2005. 2. Baker, A. R., Shine, J. Human kidney kallikrein: cDNA cloning and sequence analysis. DNA 4: 445-450, 1985. 3. Clements J, Hooper J, Dong Y, Harvey T (2001). "The expanded human kallikrein (KLK) gene family: genomic organisation, tissue-specific expression and potential functions".

Other Notes	Small volumes of anti-KLK1 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 KLK1 purchase	MBS6404519 is an antibody targeting KLK1. Also known as KLK1 (m.KLK1, Klk-6, Klk6, mGK-6, Glandular kallikrein K1, KAL-B, KLKR, Renal kallikrein, Tissue kallikrein-6) (MaxLight 550). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK1. It may not necessarily be applicable to this product.

NCBI GI #	17433705
NCBI GeneID	16612
NCBI Accession #	P15947.3
UniProt Primary Accession #	P15947
UniProt Secondary Accession #	Q61855
UniProt Related Accession #	P15947
NCBI Official Full Name	Kallikrein-1
NCBI Official Synonym Full Names	kallikrein 1
NCBI Official Symbol	Klk1
NCBI Official Synonym Symbols	Kal; Klk6; mGk-6; Klk1b6; 0610007D04Rik
UniProt Protein Name	Kallikrein-1
UniProt Synonym Protein Names	Glandular kallikrein K1; KAL-B; Renal kallikrein; Tissue kallikrein-6; mGK-6
Protein Family	Blarinasin
UniProt Gene Name	Klk1
UniProt Synonym Gene Names	Klk-6; Klk6; mGK-6
UniProt Entry Name	KLK1_MOUSE
NCBI Protein Information	kallikrein-1; KAL-B; kallikrein 6; renal kallikrein; tissue kallikrein-6; true tissue kallikrein; glandular kallikrein K1; kallikrein renal/pancreas/salivary
UniProt Comments for KLK1	KLK1: Glandular kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin. 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 Cellular Component: nucleus Molecular Function: peptidase activity; hydrolase activity; serine-type peptidase activity; serine-type endopeptidase activity; catalytic activity Biological Process: proteolysis
Research Articles on KLK1	**1.** Local expression of kallikreins within the kidney has the capacity to dampen lupus nephritis, possibly by modulating inflammation and oxidative stress.
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