

Rabbit KLKB1 Polyclonal Antibody | anti-KLKB1 antibody

KLKB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326974	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

KLKB1; Polyclonal Antibody; KLKB1 Antibody; Fletcher factor; kallikrein B plasma; Kallikrein B plasma (Fletcher factor) 1; Kallikrein B; plasma 1; Kallikrein B1; Kininogenin; KLK3; KLKB1_HUMAN; PKK; PKKD; Plasma kallikrein; Plasma kallikrein B1; Plasma kallikrein light chain; Plasma prekallikrein; PPK; Prekallikrein; anti-KLKB1 antibody

PRODUCT SPECIFICATIONS

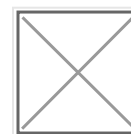
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KLKB1 antibody detects endogenous levels of total KLKB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	638
Applicable Applications for anti-KLKB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KLKB1
Subcellular Location	Secreted.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (86%), Horse (92%), Sheep (86%), Rabbit (83%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of HeLa whole cell lysates, using KLKB1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326974 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA326974 at 1/100 staining Human uterus tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-KLKB1 antibody	Description: Plasma prekallikrein is a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. It is synthesized in the liver and secreted into the blood as a single polypeptide chain. Plasma prekallikrein is converted to plasma kallikrein by factor XIIa by the cleavage of an internal Arg-Ile bond. Plasma kallikrein therefore is composed of a heavy chain and a light chain held together by a disulphide bond. The heavy chain originates from the amino-terminal end of the zymogen and contains 4 tandem repeats of 90 or 91 amino acids. Each repeat harbors a novel structure called the apple domain. The heavy chain is required for the surface-dependent pro-coagulant activity of plasma kallikrein. The light chain contains the active site or catalytic domain of the enzyme and is homologous to the trypsin family of serine proteases. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients. Function: The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin. Subunit Structure: Forms a heterodimer with SERPINA5. The zymogen is activated by factor XIIa, which cleaves the molecule into a light chain, which contains the active site, and a heavy chain, which associates with HMW kininogen. These chains are linked by one or more disulfide bonds. Similarity: Belongs to the peptidase S1 family. Plasma kallikrein subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	78191798
NCBI GeneID	3818
NCBI Accession #	NP_000883.2
NCBI GenBank Nucleotide #	NM_000892.4
UniProt Accession #	P03952; Q17RE8; Q17RE9; Q4W5C3; A6NH96; B2R8H9
Molecular Weight	Observed: 71 kDa Predicted: 72 kDa
NCBI Official Full Name	plasma kallikrein isoform 1 preproprotein
NCBI Official Synonym Full Names	kallikrein B1
NCBI Official Symbol	KLKB1
NCBI Official Synonym Symbols	PKK; PPK; KLK3; PKKD
NCBI Protein Information	plasma kallikrein
UniProt Protein Name	Plasma kallikrein
UniProt Gene Name	KLKB1
UniProt Synonym Gene Names	KLK3; PKK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.