

Rabbit Anti-Human Kallikrein 1 Monoclonal Antibody

Cat. No. CAB11570RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Kallikrein 1
Species	Human
Source	Rabbit
Antigen Description	<p>Kallikreins are members of a highly conserved serine proteases that are involved in the post-translational modification of many polypeptides, and plays a role in diverse physiological processes. Fifteen kallikreins whose encoding genes are located in a cluster on chromosome 19 have been reported, and growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. Human kallikrein 1 (KLK1), also known as tissue kallikrein, is functionally conserved in its capacity to cleave the low molecular weight kininogen to release the vasoactive peptide, Lys-bradykinin which plays a role in regulating vasodilation, blood pressure reduction, smooth muscle relaxation and contraction, pain induction and inflammation. Human KLK1 precursor consists of a signal peptide, a short pro peptide and a mature chain. Moreover, KLK1 was suggested to be associated with angiogenesis and tumorigenesis.</p>
Specificity	Human KLK1 / Kallikrein 1. No cross-reactivity in ELISA with Human KLK11, Human KLK13, Human KLK7, Human HGFA, Human F11 / Coagulation Factor XI, Human cell lysate (293 cell line)
Immunogen	Recombinant Human KLK1 / Kallikrein 1 Protein

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Isotype	Rabbit IgG
Cross Reactivity	105
Clone	AQ106
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human KLK1 in WB. Using a DAB detection system, the detection limit for Human KLK1 is approximately 0.125 ng/lane under non-reducing conditions and reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human KLK1. The detection limit for Human KLK1 is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human KLK1 / Kallikrein 1 (rh KLK1 / Kallikrein 1; NP_002248.1; Met 1 - Ser 262).
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	KLK1 kallikrein 1 [Homo sapiens]

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Official Symbol	KLK1
Synonyms	KLK1; kallikrein 1; kallikrein 1, renal/pancreas/salivary; kallikrein-1; Klk6; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kidney/pancreas/salivary gland kallikrein; hK1; KLKR;
Gene ID	3816
mRNA Refseq	NM_002257
Protein Refseq	NP_002248
UniProt ID	P06870
Chromosome Location	19q13.3
Pathway	Blood Clotting Cascade, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem;
Function	peptidase activity; serine-type endopeptidase activity;

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