

Rat Kallikrein 1 (KLK1) ELISA Kit | KLK1 elisa kit

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CATALOG #
AAA136655

REACTIVITY
Rat

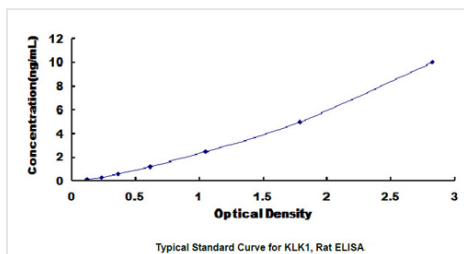
PRODUCT SYNONYMS

Kallikrein 1 (KLK1); Rat Kallikrein 1 (KLK1) ELISA Kit; KLK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Kallikrein 1 (KLK1) No significant cross-reactivity or interference between Kallikrein 1 (KLK1) and analogues was observed.
Sequence Length	262
Samples	Serum, plasma, tissue homogenates and other biological fluids
Assay Type	Sandwich
Detection Range	0.156-10ng/mL The standard curve concentrations used for the ELISA's were 10ng/mL, 5ng/mL, 2.5ng/mL, 1.25ng/mL, 0.625ng/mL, 0.313ng/mL, 0.156ng/mL
Sensitivity	Typically less than 0.064ng/mL.
Organism Species	Rattus norvegicus (Rat)
ELISA Type	Sandwich
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Kallikrein 1 (KLK1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Kallikrein 1 (KLK1) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KLK1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Kallikrein 1 (KLK1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Kallikrein 1 (KLK1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Kallikrein 1 (KLK1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Kallikrein 1 (KLK1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504875
NCBI GeneID	3816
NCBI Accession #	NP_002248.1
NCBI GenBank Nucleotide #	NM_002257.3
UniProt Accession #	P06870; Q66US9; Q86U61; Q8TCV8; Q9BS53; Q9NQU4; Q9UD19; Q9UMJ1
Molecular Weight	28,890 Da
NCBI Official Full Name	kallikrein-1 preproprotein
NCBI Official Synonym Full Names	kallikrein 1
NCBI Official Symbol	KLK1
NCBI Official Synonym Symbols	hK1; KLKR; Klk6
NCBI Protein Information	kallikrein-1; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kallikrein 1, renal/pancreas/salivary; kidney/pancreas/salivary gland kallikrein
UniProt Protein Name	Kallikrein-1
UniProt Gene Name	KLK1
UniProt Entry Name	KLK1_HUMAN

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.