

Datasheet for ABIN3043136

## anti-Kallikrein 1 antibody (C-Term)



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### Overview

Quantity:	100 µg
Target:	Kallikrein 1 (KLK1)
Binding Specificity:	AA 243-261, C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kallikrein 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Kallikrein-1(Ngfg) detection. Tested with WB, IHC-P in Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of rat Kallikrein 1(243-261aa YTKLIKFTPWIKEVMKENP).
Sequence:	YTKLIKFTPW IKEVMKENP
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Kallikrein-1(Ngfg) detection. Tested with WB, IHC-P in Rat. Gene Name: kallikrein 1 Protein Name: Kallikrein-1
Purification:	Immunogen affinity purified.

## Target Details

Target:	Kallikrein 1 (KLK1)
Alternative Name:	KLK1 ( <a href="#">KLK1 Products</a> )
Background:	<p>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.</p> <p>Synonyms: Glandular kallikrein 1 antibody hK 1 antibody hK1 antibody Kallikrein serine protease 1 antibody Kallikrein-1 antibody Kidney/pancreas/salivary gland kallikrein antibody Klk 6 antibody KLK1 antibody KLK1_HUMAN antibody Klk6 antibody KLKR antibody Tissue kallikrein antibody</p>
UniProt:	<a href="#">P00758</a>
Pathways:	<a href="#">Complement System</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.</p> <p>Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
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## Handling

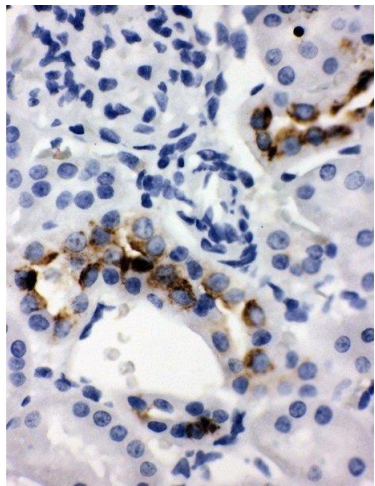
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

## Publications

Product cited in:	<p>Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: <b>Experimental and therapeutic medicine</b>, Vol. 14, Issue 3, pp. 1975-1982, (2017) (<a href="#">PubMed</a>).</p> <p>Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: <b>SpringerPlus</b>, Vol. 5, pp. 215, (2016) (<a href="#">PubMed</a>).</p> <p>Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: <b>Cardiovascular diabetology</b>, Vol. 12, pp. 37, (2013) (<a href="#">PubMed</a>).</p> <p>Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: <b>Journal of medicinal food</b>, Vol. 16, Issue 7, pp. 577-86, (2013) (<a href="#">PubMed</a>).</p> <p>Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-</p>
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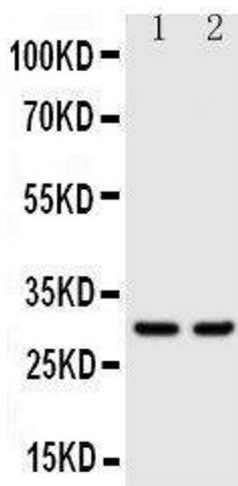
kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) ([PubMed](#)).

Validation report #100035 for Immunohistochemistry (IHC)



Immunohistochemistry

**Image 1.** Anti-Kallikrein 1 antibody, IHC(P) IHC(P): Rat Kidney Tissue



Western Blotting

**Image 2.** Anti-Kallikrein 1 antibody, Western blotting Lane 1: Rat Pancreas Tissue Lysate Lane 2: Rat Kidney Tissue Lysate