

Datasheet for ABIN3043141
anti-Kallikrein 1 antibody (Middle Region)[Go to Product page](#)[2 Images](#)[2 Publications](#)

Overview

Quantity:	100 µg
Target:	Kallikrein 1 (KLK1)
Binding Specificity:	AA 182-197, Middle Region
Reactivity:	Human
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(KLK1) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Kallikrein 1(182-197aa NDECKKAHVQKVTDFM).
Sequence:	NDECKKAHVQ KVTDFM
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Kallikrein-1(KLK1) detection. Tested with WB, IHC-P in Human. Gene Name: kallikrein 1 Protein Name: Kallikrein-1

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Kallikrein 1 (KLK1)

Alternative Name: KLK1 ([KLK1 Products](#))

Background: 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.

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

UniProt: [P06870](#)

Pathways: [Complement System](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, 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.
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.
Optimal dilutions should be determined by end users.

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
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 ₂ HPO ₄ , 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

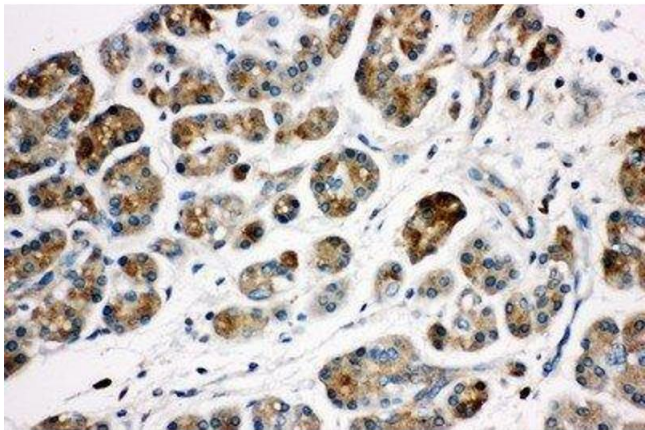
Publications

Product cited in:	<p>Ostermann, Seeliger, David, Flasche, Maus, Reinboth, Christmann, Neumann, Brand, Seltsmann, Bühling, Paton, Roth, Vogl, Viemann, Welte, Maus: "S100A9 is indispensable for survival of pneumococcal pneumonia in mice." in: PLoS pathogens, Vol. 19, Issue 7, pp. e1011493, (2023) (PubMed).</p> <p>Ostermann, Maus, Stolper, Schütte, Katsarou, Tumpara, Pich, Mueller, Janciauskiene, Welte, Maus: "Alpha-1 antitrypsin deficiency impairs lung antibacterial immunity in mice." in: JCI insight, Vol. 6, Issue 3, (2021) (PubMed).</p> <p>Hu, Wang, Rao, Zhao, Yang, Hu, He, Xia, Liu, Zhen, Di, Xie, Xia, Zhu: "Alterations in the endometrium of rats, rabbits, and Macaca mulatta that received an implantation of copper/low-density polyethylene nanocomposite." in: International journal of nanomedicine, Vol. 9, pp. 1127-38, (2015) (PubMed).</p> <p>Zhou, Chen, Jiang, Feng, Han: "Effects of bone marrow-derived mesenchymal stem cells transfected with survivin on pulmonary fibrosis in mice." in: Experimental and therapeutic</p>
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medicine, Vol. 10, Issue 5, pp. 1857-1864, (2015) ([PubMed](#)).

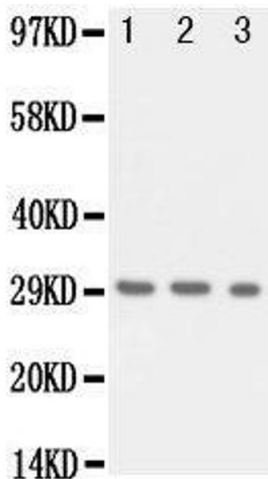
Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Anti-Kallikrein 1 antibody, IHC(P) IHC(P): Human Pancreatic Cancer Tissue



Western Blotting

Image 2. Anti-Kallikrein 1 antibody, Western blotting Lane 1: Recombinant Human KLK1 Protein 10ng Lane 2: Recombinant Human KLK1 Protein 5ng Lane 3: Recombinant Human KLK1 Protein 2.5ng