

Anti-human Kallikrein antibody

Cat # KAL11-A **Rabbit anti-human Kallikrein IgG** **Size:** 100 ul

Kallikreins (tissue and plasma kallikrein) are peptidases (enzymes that cleave peptide bonds in proteins), a subgroup of the serine protease family. They liberate kinins (BK and KD) from the kininogens. Prekallikrein is the precursor of plasma kallikrein. It can only activate kinins after being activated itself by factor XII or other stimuli. There are 15 known kallikreins: KLK1, KLK2, KLK3, KLK4, KLK5, KLK6, KLK7, KLK8, KLK9, KLK10, KLK11, KLK12, KLK13, KLK14, KLK15.

Kallikreins are targets of active investigation by drug researchers as possible biomarkers for cancer. Prostate-specific antigen (PSA; hk3, human kallikrein gene 3) and human glandular kallikrein (hk2) are used as tumor markers for prostate cancer. It also generates plasmin from plasminogen: kallikrein is a serine protease that releases bradykinin from kininogen. Present in plasma as an inactive precursor prokallikrein.

Source and Form:

Kallikrein was purified from human plasma (>95%, mol wt 120 Kda) using proprietary techniques. Produced a single arc on IEP of whole serum or plasma or purified antigen. It is supplied in Tris, pH 7.8, 100 mM NaCl liquid (see lot sp conc on the vial) or in powder form. Reconstitute powder in water at a minimum of 100 ug/ml. Store lyophilized at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Source of Antigen, Antibodies, and positive controls

Antigen	Purified human kallikrein (cat # KAL15-N-50)
Ab Host/type	Rabbit, Polyclonal IgG (#KAL11-A) supplied in PBS, 0.055% azide
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Antibody
100 ul/vial solution lyophilized powder
contains 0.05% sodium azide
Reconstitute powder 100 ul PBS

Storage

Short-term: unopened, undiluted liquid vials for less than a week at 40C.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting 1:1K using Chemiluminescence technique). Human kallikrein is ~ 86-88 Kda.

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: not tested. We recommend a dilution of 1:200 to 1:500.

Specificity & Cross-reactivity

The KAL11-S reacts with human kallikrein in western and ELISA. It is expected to crossreact with kallikrein from other species. Antibody crossreactivity in various species is not established. **cat # KALN15-N-50** protein control should be used a positive control.

Refs: Bhoola KD (1992) Pharmacol. Rev. 44, 1-80; Borongo CA

all items are for in vitro research use only.

Related items

Catalog#	ProdDescription
Rabbit-Poly protein antiserum	APOA11-S Anti-Human Plasma Apolipoprotein A-I
Rabbit-Poly IgG, aff pure	APOA12-A Anti-Human Apolipoprotein A-I protein
Rabbit-Poly IgG, aff pure	APOA13-A Anti-Mouse Apolipoprotein A-I protein
Goat-Poly Rabbit-Poly	APOB21-A Ant-Human Apolipoprotein B IgG, aff pure
Rabbit-Poly	APOC11-A Anti-Human Apolipoprotein C-I IgG, aff pure
for WB	APOC15-N-100 Human Apolipoprotein C-I protein control
	APOC15-N-100 Apolipoprotein C-I, Human Plasma, VLDL
KAL11-A0	100129A

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