10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-Kallikrein 1 antibody

**Catalog # ABO10258**

## Specification

### Anti-Kallikrein 1 antibody - Product Information

| | |
|---|---|
| Application | **WB, E** |
| Primary Accession | P06870 |
| Host | **Rabbit** |
| Reactivity | **Human** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Kallikrein 1 detection. Tested with WB, ELISA(Cap) in Human.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-Kallikrein 1 antibody - Additional Information

**Gene ID** 3816

**Other Names**
Kallikrein-1, 3.4.21.35, Kidney/pancreas/salivary gland kallikrein, Tissue kallikrein, KLK1

**Application Details**
Western blot, 0.1-0.5 µg/ml<br> ELISA(Cap), 0.1-0.5 µg/ml<br>

**Tissue Specificity**
Isoform 2 is expressed in pancreas, salivary glands, kidney, colon, prostate gland, testis, spleen and the colon adenocarcinoma cell line T84.

**Contents**
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**
E. coli-derived human Kallikrein 1 recombinant protein (Position: I25-S262).

**Cross Reactivity**
No cross reactivity with other proteins.

| | |
|---|---|
| Storage | **At -20˚C; for one year. After r˚Constitution, 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.** |

### Anti-Kallikrein 1 antibody - Protein Information

**Name** KLK1

**Function**
Glandular kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin.

**Tissue Location**
Isoform 2 is expressed in pancreas, salivary glands, kidney, colon, prostate gland, testis, spleen and the colon adenocarcinoma cell line T84.

## Anti-Kallikrein 1 antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-Kallikrein 1 antibody - Images

## Anti-Kallikrein 1 antibody - 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.