

## Anti-Kallikrein 1/KLK1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PA1709-Fluoro488

### About Klk1

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.

### Overview

Product Name	Anti-Kallikrein 1/KLK1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P15947

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Kallikrein 1.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 4 Publications Citing This Product

1. PubMed ID: 10.1038/cddis.2014.428, Dynamic involvement of ATG5 in cellular stress responses
2. PubMed ID: , Tracing tumorigenesis in a solid tumor model at single-cell resolution
3. PubMed ID: 28977871, The Goblet Cell Protein Clca1 (Alias mClca3 or Gob-5) Is Not Required for Intestinal Mucus Synthesis, Structure and Barrier Function in Naive or DSS-Challenged Mice

Visit [bosterbio.com/anti-kallikrein-1-antibody-pa1709-boster.html](http://bosterbio.com/anti-kallikrein-1-antibody-pa1709-boster.html) to see all 4 publications.

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