

Anti-Kallikrein 1/KLK1 Antibody Picoband®

Catalog Number: PA2038

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

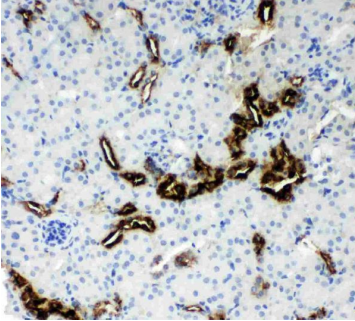
Product Name	Anti-Kallikrein 1/KLK1 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-Kallikrein 1/KLK1 Antibody catalog # PA2038. Tested in IHC, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P15947

Technical Details

Immunogen	E. coli-derived mouse KLK1 recombinant protein (Position: I25-D261).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse Western blot, 0.1-0.5ug/ml, Mouse

Anti-Kallikrein 1/KLK1 Antibody Picoband® (PA2038) Images



Anti-Kallikrein 1 antibody, PA2038, IHC(P)IHC(P): Mouse Kidney Tissue



Anti-Kallikrein 1 antibody, PA2038, Western blotting All lanes:
Anti Kallikrein 1 (PA2038) at 0.5ug/ml WB: Mouse Testis
Tissue Lysate at 50ug Predicted bind size: 29KD Observed
bind size: 29KD

2 Publications Citing This Product

1. 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
2. PubMed ID: 25341032, Dynamic involvement of ATG5 in cellular stress responses

Visit bosterbio.com/anti-kallikrein-1-antibody-pa2038-boster.html to see all 2 publications.

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