BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody Picoband®

Catalog Number: PA1993

About PDK1

PDK1 (Pyruvate Dehydrogenase Kinase Isoenzyme 1), is an enzyme that in humans is encoded by the PDK1 gene. To find human PDKs, Gudi et al. (1995) used oligonucleotide primers to screen a human liver cDNA library by PCR. They identified and reported the deduced amino acid sequences of PDK1, PDK2, and PDK3. The human PDK1 gene encodes a protein with a predicted molecular mass of 49,244 Da that shares 93% identity with that of the rat PDK1 gene. Northern blot analysis showed that the PDK1 message was expressed predominantly in the heart.

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Overview

Product Name	Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody catalog # PA1993. Tested in IHC, WB applications. This antibody reacts with Human, Rat. 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 Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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	Q15118

Technical Details

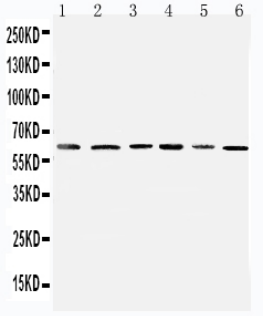
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antibody and ELISA experts

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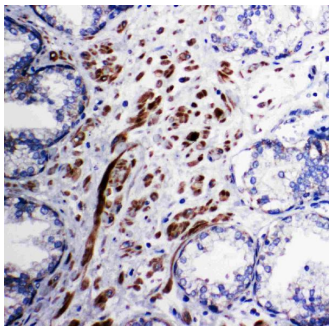
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Mitochondrial Pyruvate dehydrogenase kinase 1, different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced 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, Human, Rat Western blot, 0.1-0.5ug/ml, Human, Rat

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Anti-Mitochondrial Pyruvate dehydrogenase kinase 1/PDK1 Antibody Picoband® (PA1993) Images



Anti-Mitochondrial Pyruvate dehydrogenase kinase 1 antibody, PA1993, Western blottingLane 1: Rat Heart Tissue LysateLane 2: Rat Skeletal Muscle Tissue LysateLane 3: HELA Cell LysateLane 4: M231 Cell LysateLane 5: COLO320 Cell LysateLane 6: SW620 Cell Lysate



Anti-Mitochondrial Pyruvate dehydrogenase kinase 1 antibody, PA1993, IHC(P)IHC(P): Human Prostatic Cancer Tissue

2 Publications Citing This Product

1. PubMed ID: 19816521, Xu K, Ding Q, Fang Z, Zheng J, Gao P, Lu Y, Zhang Y. Cancer Gene Ther. 2010 Mar;17(3):212-22. Doi: 10.1038/Cgt.2009.66. Epub 2009 Oct 9. Silencing Of Hif-1Alpha Suppresses Tumorigenicity Of Renal Cell Carcinoma Through Induction Of Apoptosis.

2. PubMed ID: 29845188, lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR? pathway in hepatocellular carcinoma

Visit bosterbio.com/anti-mitochondrial-pyruvate-dehydrogenase-kinase-1-antibody-pa1993-boster.html to see all 2 publications.

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