

Anti-LKB1/STK11 Antibody Picoband™

Catalog Number: PB9270

About STK11

Serine/threonine kinase 11 or LKB1 is a protein kinase which in humans is encoded by the STK11 gene. The STK11 gene, which encodes a member of the serine/threonine kinase, regulates cell polarity and functions as a tumour suppressor. STK11 is a primary upstream kinase of adenine monophosphate-activated protein kinase (AMPK), a necessary element in cell metabolism that is required for maintaining energy homeostasis. It has been found that LKB1 physically associates with p53 and regulates specific p53-dependent apoptosis pathways. The STK11 gene extends over 23 kb of genomic DNA and is composed of 9 exons, which are transcribed in telomere-to-centromere direction.

Overview

Product Name	Anti-LKB1/STK11 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-LKB1/STK11 Antibody Picoband™ catalog # PB9270. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	Q15831

Technical Details

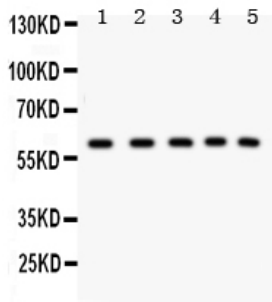
Immunogen	E.coli-derived human LKB1 recombinant protein (Position: K62-C430). Human LKB1 shares 89% amino acid (aa) sequence identity with both mouse and rat LKB1.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human

Anti-LKB1/STK11 Antibody Picoband™ (PB9270) Images



Anti-LKB1 Picoband antibody, PB9270, Western blotting
All lanes: Anti LKB1 (PB9270) at 0.5ug/ml
WB: Recombinant Human LKB1 Protein 0.5ng
Predicted bind size: 39KD
Observed bind size: 39KD



Anti-LKB1 Picoband antibody, PB9270, Western blotting
All lanes: Anti LKB1 (PB9270) at 0.5ug/ml
Lane 1: 293T Whole Cell Lysate at 40ug
Lane 2: HT1080 Whole Cell Lysate at 40ug
Lane 3: SHG Whole Cell Lysate at 40ug
Lane 4: JURKAT Whole Cell Lysate at 40ug
Lane 5: Human Placenta Tissue Lysate at 50ug
Predicted bind size: 48KD
Observed bind size: 60KD

1 Publications Citing This Product

1. PubMed ID: 25973293, Tang Y, Li M, Wang YI, Threadgill Md, Xiao M, Mou Cf, Song GI, Kuang J, Yang X, Yang L, Gao Xj, Wang Yp, Meng Yp. Am J Cancer Res. 2015 Jan 15;5(2):498-513. Ecollection 2015. Art1 Promotes Starvation-Induced Autophagy: A Possible Protective Role I...

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