

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 adenosine 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

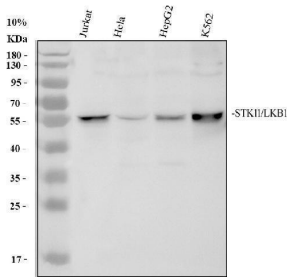
Product Name	Anti-LKB1/STK11 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-LKB1/STK11 Antibody Picoband® catalog # PB9270. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg 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	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.
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	Western blot, 0.1-0.5ug/ml, Human

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



Western blot analysis of LKB1/STK11 using anti-LKB1/STK11 antibody (PB9270). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human HeLa whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human K562 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LKB1/STK11 antigen affinity purified polyclonal antibody (PB9270) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for LKB1/STK11 at approximately 55 kDa. The expected band size for LKB1/STK11 is at 49 kDa.

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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