

Anti-LIM kinase 2/LIMK2 Antibody Picoband®

Catalog Number: PB9717

About LIMK2

LIM domain kinase 2 is an enzyme that in humans is encoded by the LIMK2 gene. There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene.

Overview

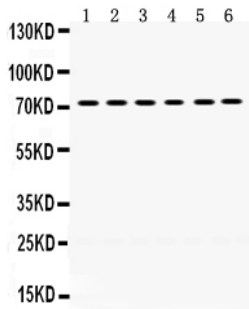
Product Name	Anti-LIM kinase 2/LIMK2 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-LIM kinase 2/LIMK2 Antibody Picoband® catalog # PB9717. Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees 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	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	P53671

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human LIM kinase 2, different from the related mouse sequence by four amino acids, and from the related rat sequence by three amino acids.
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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, Mouse

Anti-LIM kinase 2/LIMK2 Antibody Picoband® (PB9717) Images



Western blot analysis of LIM kinase 2 using anti-LIM kinase 2 antibody (PB9717). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Mouse Brain Tissue Lysate at 50ug, Lane 2: Mouse Liver Tissue Lysate at 50ug, Lane 3: Mouse Thymus Tissue Lysate at 50ug, Lane 4: Mouse Testis Tissue Lysate at 50ug, Lane 5: 293T Whole Cell Lysate at 40ug, Lane 6: HELA Whole Cell Lysate at 40ug. 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-LIM kinase 2 antigen affinity purified polyclonal antibody (Catalog # PB9717) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LIM kinase 2 at approximately 72 kDa. The expected band size for LIM kinase 2 is at 72 kDa.

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