



# LIMK-1/2 (PTR2545) Mouse mAb

|                           |  |
|---------------------------|--|
| <b>Catalog No</b>         | BYab-17321   |
| <b>Isotype</b>            | IgG  |
| <b>Reactivity</b>         | Human, Mouse,Rat   |
| <b>Applications</b>       | WB,ELISA   |
| <b>Gene Name</b>          | LIMK1 LIMK   |
| <b>Protein Name</b>       | LIM domain kinase 1 (LIMK-1) (EC 2.7.11.1)   |
| <b>Immunogen</b>          | Synthesized peptide derived from human LIMK-1/2  |
| <b>Specificity</b>        | This antibody detects endogenous levels of LIMK-1/2 at Human, Mouse,Rat  |
| <b>Formulation</b>        | PBS, pH7.4, 50% glycerol, 0.03%Proclin 300   |
| <b>Source</b>             | Mouse,monoclonal:IgG1,Lambda   |
| <b>Purification</b>       | Protein G  |
| <b>Dilution</b>           | WB 1:500-2000 ELISA 1:5000-20000   |
| <b>Concentration</b>      | 1 mg/ml  |
| <b>Purity</b>             | ≥90%   |
| <b>Storage Stability</b>  | -20°C/1 year   |
| <b>Synonyms</b>           | LIM domain kinase 1 (LIMK-1) (EC 2.7.11.1)   |
| <b>Observed Band</b>      | 70kDa  |
| <b>Cell Pathway</b>       | Cytoplasm . Nucleus . Cytoplasm, cytoskeleton . Cell projection, lamellipodium . Predominantly found in the cytoplasm. Localizes in the lamellipodium in a CDC42BPB, CDC42BPB and FAM89B/LRAP25-dependent manner. .  |
| <b>Tissue Specificity</b> | Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain, with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle.   |
| <b>Function</b>           | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Haploinsufficiency of LIMK1 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in Williams-Beuren syndrome (WBS), a rare developmental disorder. It is a contiguous gene deletion syndrome involving genes from chromosome band 7q11.23.,function:Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. Isoform 3 has a dominant negative effect on actin cytoskeletal changes. May be involved in brain development.,PTM:Autophosphorylated.,PTM:Phosphorylated on serine and/or |

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threonine residues by ROCK1. May be dephosphorylated and inactivated by SSH1.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.,similarity:Contains 1 PDZ (DHR) doma

## Background

LIM domain kinase 1(LIMK1) Homo sapiens 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. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. This protein also stimulates axon growth and may play a role in brain development. LIMK1 hemizygosity is implicated in the impaired visuospatial constructive cog

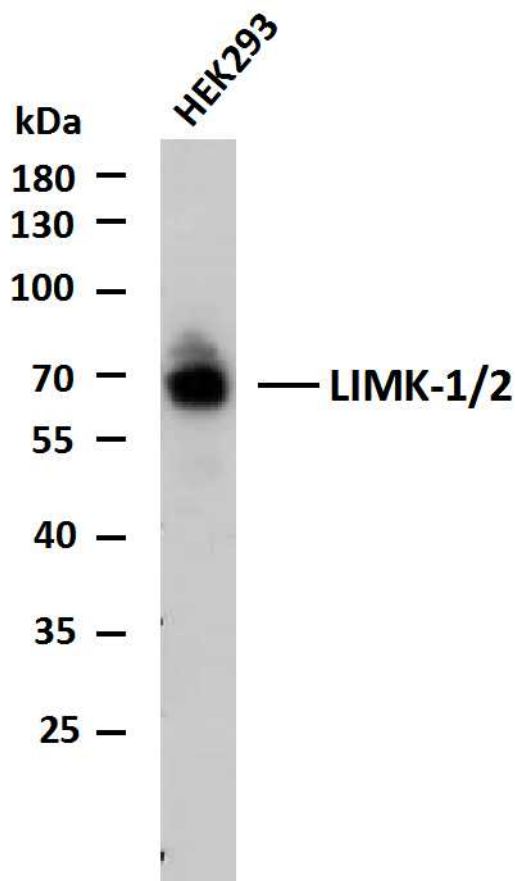
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

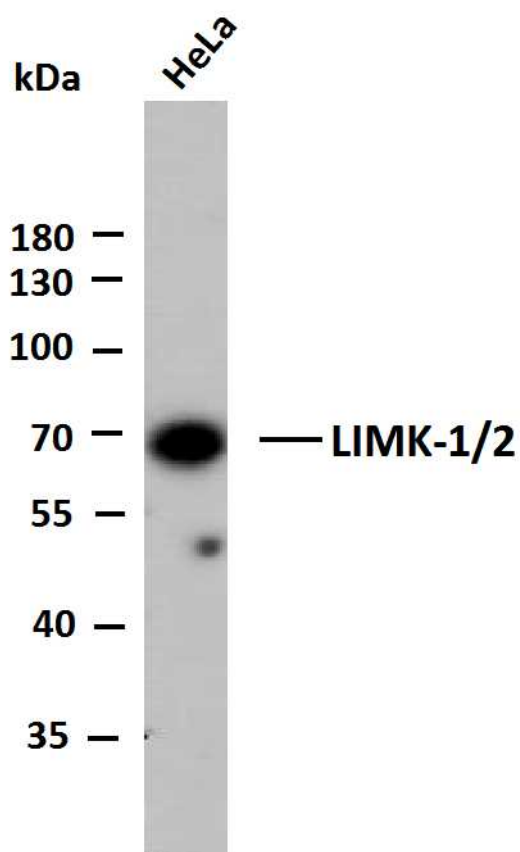
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

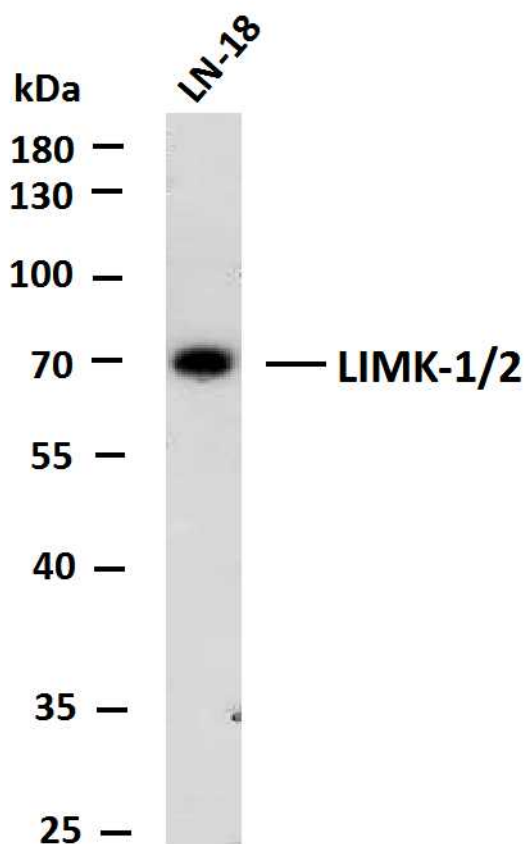


Whole cell lysates of HEK293 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-LIMK-1/2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Predicted band size: 65,72kDa Observed band size: 68,72kDa

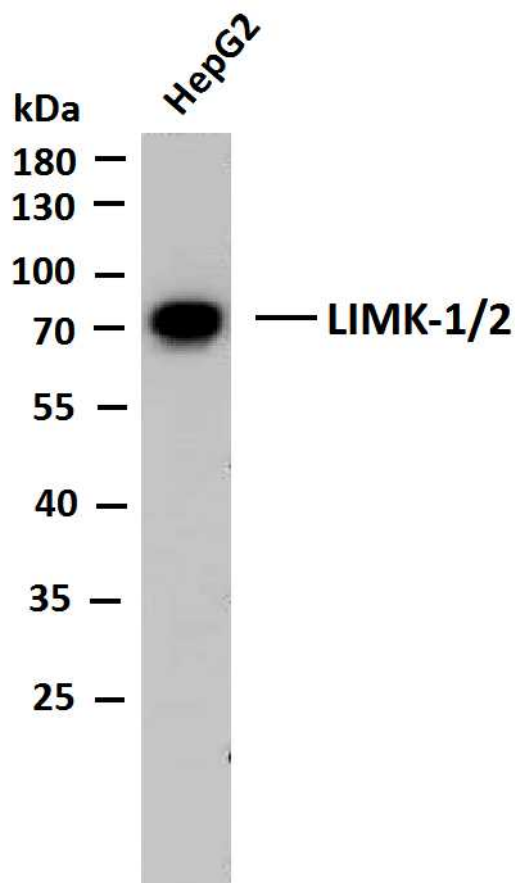
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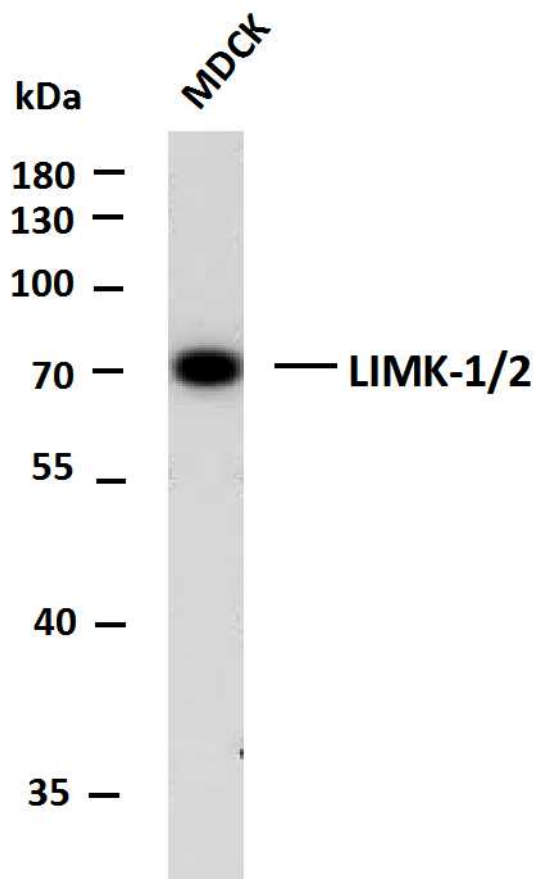
Whole cell lysates of HeLa were separated by 10% SDS-PAGE, and the membrane was blotted with anti-LIMK-1/2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Predicted band size: 65,72kDa Observed band size: 68kDa



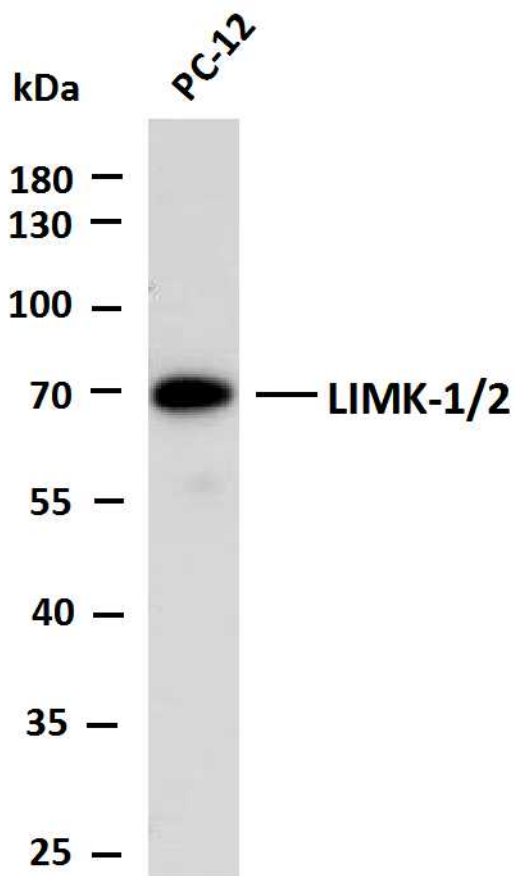
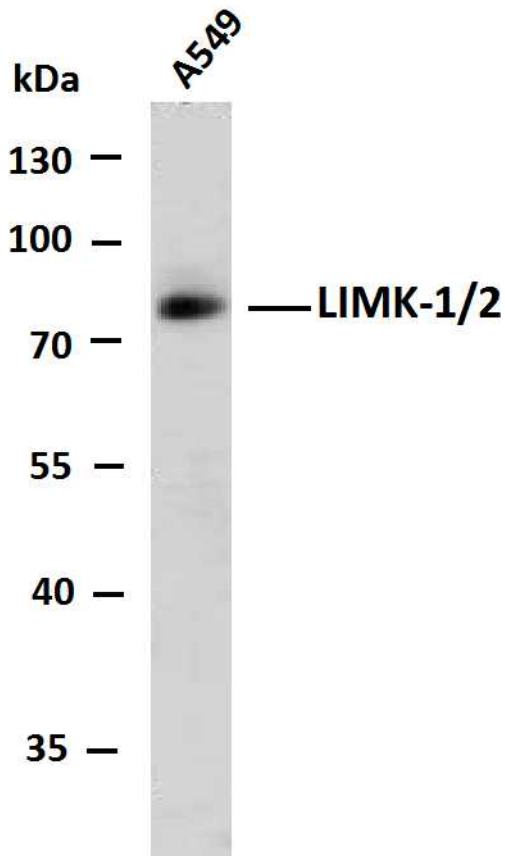
Whole cell lysates of LN-18 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-LIMK-1/2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: LN-18 Predicted band size: 65,72kDa Observed band size: 70kDa



Whole cell lysates of HepG2 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-LIMK-1/2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Predicted band size: 65,72kDa Observed band size: 72kDa



Whole cell lysates of MDCK were separated by 10% SDS-PAGE, and the membrane was blotted with anti-LIMK-1/2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MDCK Predicted band size: 65,72kDa Observed band size: 70kDa



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