

Product datasheet

Anti-LIMK2 (phospho T505) antibody ab38499

★★★★★ [1 Abreviews](#) [16 References](#) [3 Images](#)

Overview

Product name	Anti-LIMK2 (phospho T505) antibody
Description	Rabbit polyclonal to LIMK2 (phospho T505)
Host species	Rabbit
Specificity	This antibody is specific for LIMK2 only when phosphorylated at threonine 505, but may also cross react with LIMK1 phosphorylated at tyrosine 505 based on homology.
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human LIMK-2 (phospho T505).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS</p>
Purity	Immunogen affinity purified
Purification notes	The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab38499 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 70 kDa (predicted molecular weight: 72 kDa).
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

Target

Function

Displays serine/threonine-specific phosphorylation of myelin basic protein and histone (MBP) in vitro.

Tissue specificity

Highest expression in the placenta; moderate level in liver, lung, kidney, and pancreas. LIMK2a is found to be more abundant than LIMK2b in liver, colon, stomach, and spleen, while in brain, kidney, and placenta LIMK2b is the dominant form. In adult lung, both LIMK2a and LIMK2b is nearly equally observed.

Sequence similarities

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.
Contains 2 LIM zinc-binding domains.
Contains 1 PDZ (DHR) domain.
Contains 1 protein kinase domain.

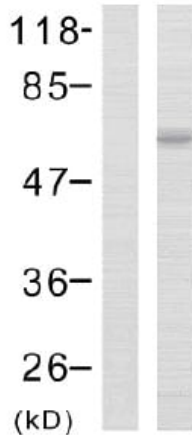
Post-translational modifications

Phosphorylated on serine and/or threonine residues by ROCK1.

Cellular localization

Cytoplasm. Nucleus. Isoform LIMK2a is distributed in the cytoplasm and the nucleus and
Cytoplasm. Nucleus. Isoform LIMK2b occurs mainly in the cytoplasm and is scarcely translocated to the nucleus.

Images



Western blot - Anti-LIMK2 (phospho T505) antibody (ab38499)

All lanes : Anti-LIMK2 (phospho T505) antibody (ab38499) at 1/500 dilution

Lane 1 : MCF7 cell extract (5-30ug of total protein) pre-incubated with phosphopeptide.

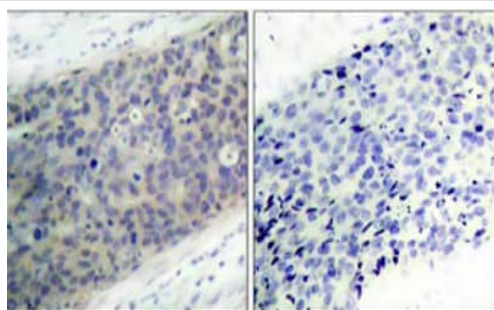
Lane 2 : MCF7 cell extract (5-30ug of total protein).

Secondary

All lanes : Alkaline Phosphatase Goat Anti-Rabbit IgG (H+L)

Predicted band size: 72 kDa

Observed band size: 70 kDa

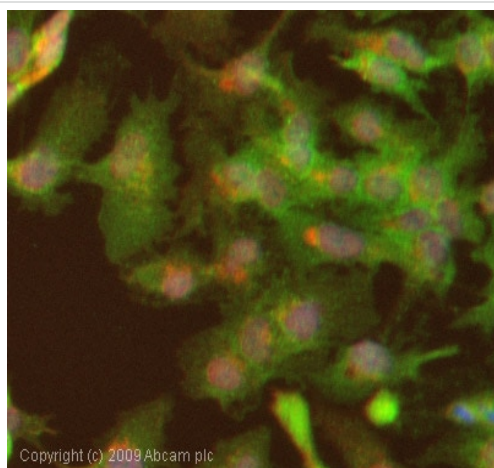


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIMK2 (phospho T505) antibody (ab38499)

ab38499 at a 1:50 dilution staining LIMK2 in Human breast carcinoma tissue using Immunohistochemistry, Paraffin Embedded Tissue.

Left image : untreated.

Right image : treated with phosphopeptide.



Immunocytochemistry/ Immunofluorescence - Anti-LIMK2 (phospho T505) antibody (ab38499)

ICC/IF image of ab38499 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab38499, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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