

### Anti-LIM Kinase 1 (phospho T508) antibody ab38508

★★★★★ [2 Abreviews](#) [16 References](#) [3 图像](#)

#### 概述

产品名称	Anti-LIM Kinase 1 (phospho T508)抗体
描述	兔多克隆抗体to LIM Kinase 1 (phospho T508)
宿主	Rabbit
特异性	This antibody is specific for LIM Kinase only when phosphorylated at threonine 508. It recognizes both LIMK1 and LIMK2 from human, mouse, and rat.
经测试应用	<b>适用于:</b> WB, IHC-P
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide corresponding to Human LIM Kinase 1 (phospho T508).
常规说明	<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&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS</p>
纯度	Without Mg <sup>2+</sup> and Ca <sup>2+</sup>
纯化说明	Immunogen affinity purified
克隆	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab38508于以下的经测试应用

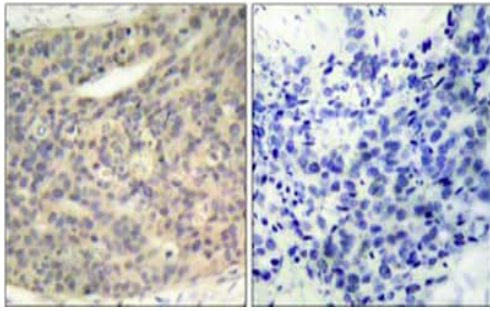
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 65 kDa (predicted molecular weight: 73 kDa).
IHC-P		1/50 - 1/100.

## 靶标

功能	Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin, thereby stabilizing the actin cytoskeleton. Stimulates axonal outgrowth and may be involved in brain development. Isoform 3 has a dominant negative effect on actin cytoskeletal changes.
组织特异性	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.
疾病相关	Note=LIMK1 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.
序列相似性	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.
翻译后修饰	Autophosphorylated. Phosphorylated on serine and/or threonine residues by ROCK1. May be dephosphorylated and inactivated by SSH1. Ubiquitinated. 'Lys-48'-linked polyubiquitination by RNF6 leads to proteasomal degradation through the 26S proteasome, modulating LIMK1 levels in the growth cone and its effect on axonal outgrowth. Also polyubiquitinated by RLIM.
细胞定位	Cytoplasm. Cell projection > growth cone.

## 图片

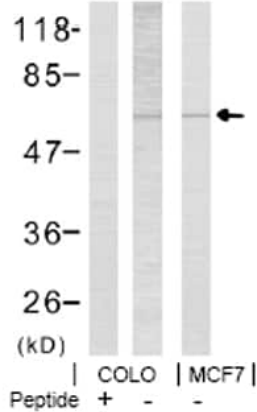


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIM Kinase 1 (phospho T508) antibody (ab38508)

ab38508 at a 1:50 dilution staining LIM Kinase in Human breast carcinoma tissue using Immunohistochemistry, Paraffin Embedded Tissue.

Left image : untreated.

Right image : treated with phosphopeptide.



Western blot - Anti-LIM Kinase 1 (phospho T508) antibody (ab38508)

**All lanes** : Anti-LIM Kinase 1 (phospho T508) antibody (ab38508) at 1/500 dilution

**Lane 1** : Extract of COLO cells + peptide.

**Lane 2** : Extract of COLO cells.

**Lane 3** : Extract of MCF7 cells.

Lysates/proteins at 30 µg per lane.

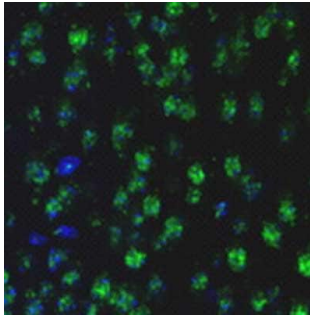
### Secondary

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

**Predicted band size:** 73 kDa

**Observed band size:** 65 kDa

Lanes can be loaded with 5-30µg of total protein. The arrow next to the image points to LIM Kinase (phospho T508).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIM Kinase 1 (phospho T508) antibody (ab38508)

Image from Molkall M et al, Development. 2010 Jul;137(14):2365-74. Epub 2010 Jun 9, Fig 6. DOI: 10.1242/dev.047605.

ab38508 staining LIM Kinase 1 in mouse brain tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

bdKO mice were anesthetized and transcardially perfused with PBS, followed by 4% paraformaldehyde (PFA) prior to brain dissection. Brains were then postfixed in 4% PFA for 2 days, embedded in paraffin and sectioned.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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