

#### OriGene Technologies, Inc.

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# Product datasheet for TA503012AM

### LIM Kinase 1 (LIMK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI6B4]

#### **Product data:**

| Product Type:           | Primary Antibodies  |
|-------------------------|---|
| Clone Name:             | OTI6B4  |
| Applications:           | FC, IF, IHC, WB   |
| Recommended Dilution:   | WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Dog, Rat, Monkey, Mouse  |
| Host:                   | Mouse   |
| lsotype:                | lgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human LIMK1(NP_002305) produced in HEK293T<br>cell.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.5 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography<br>(protein A/G)  |
| Conjugation:            | Biotin  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 72.4 kDa  |
| Gene Name:              | LIM domain kinase 1   |
| Database Link:          | <u>NP_002305</u><br><u>Entrez Gene 16885 MouseEntrez Gene 65172 RatEntrez Gene 489800 DogEntrez Gene 699494</u><br><u>MonkeyEntrez Gene 3984 Human</u><br><u>P53667</u> |



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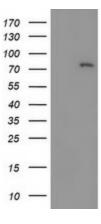
## LIM Kinase 1 (LIMK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI6B4] – TA503012AM

Background: 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 cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2011]

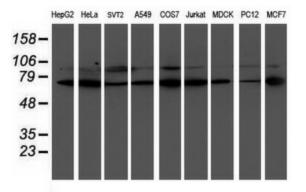
Synonyms: LIMK; LIMK-1

Protein Families:Druggable Genome, Protein KinaseProtein Pathways:Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

### **Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LIMK1 (Cat# [RC218058], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LIMK1 (Cat# [TA503012]). Positive lysates [LY400838] (100ug) and [LC400838] (20ug) can be purchased separately from OriGene.

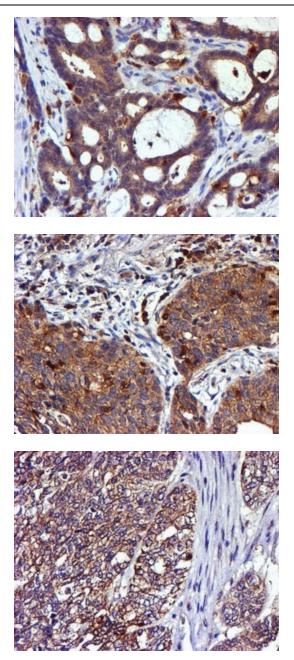


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-LIMK1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

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# LIM Kinase 1 (LIMK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI6B4] – TA503012AM



Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-LIMK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

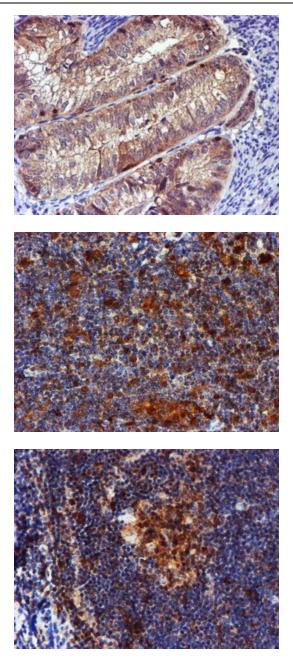
Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-LIMK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-LIMK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

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Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-LIMK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

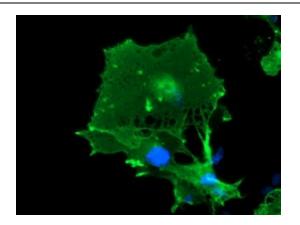
Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-LIMK1 mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-LIMK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503012])

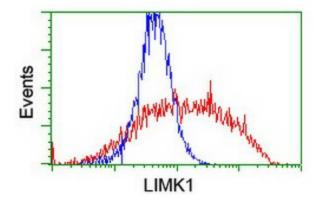
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# LIM Kinase 1 (LIMK1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI6B4] – TA503012AM



Anti-LIMK1 mouse monoclonal antibody ([TA503012]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LIMK1 ([RC218058]).



HEK293T cells transfected with either [RC218058] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-LIMK1 antibody ([TA503012]), and then analyzed by flow cytometry.

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