

Product datasheet for TA503201

OriGene Technologies, Inc.

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LIM Kinase 1 (LIMK1) Mouse Monoclonal Antibody [Clone ID: OTI3A3]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI3A3

Applications: FC, IF, WB

Recommended Dilution: WB 1:2000, IF 1:100, FLOW 1:100

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human LIMK1(NP_002305) produced in HEK293T

cell

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

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: NP 002305

Entrez Gene 16885 MouseEntrez Gene 65172 RatEntrez Gene 3984 Human

P53667





Background:

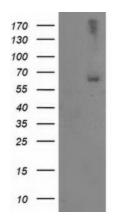
There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. 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.

Synonyms: LIMK; LIMK-1

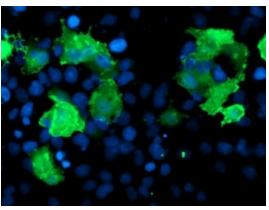
Protein Families: Druggable Genome, Protein Kinase

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

Product images:

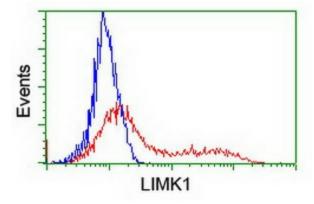


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LIMK1 ([RC218058], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LIMK1. Positive lysates [LY400838] (100ug) and [LC400838]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



Anti-LIMK1 mouse monoclonal antibody (TA503201) 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 (TA503201), and then analyzed by flow cytometry.