



LIMK-1 (phospho Thr508) rabbit pAb

Cat#: orb764227 (Manual)

For research use only. Not intended for diagnostic use.

Product Name LIMK-1 (phospho Thr508) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in

other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human LIMK1 around the phosphorylation site of Thr508. AA range:471-

520

Specificity Phospho-LIMK-1 (T508) Polyclonal Antibody detects endogenous levels of

LIMK-1 protein only when phosphorylated at T508.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name LIM domain kinase 1

Gene Name LIMK1

Cellular localization Cytoplasm . Nucleus . Cytoplasm, cytoskeleton . Cell projection,

lamellipodium . Predominantly found in the cytoplasm. Localizes in the lamellipodium in a CDC42BPA, CDC42BPB and FAM89B/LRAP25-

dependent manner. .

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.





Clonality Polyclonal

Concentration 1 mg/ml

Observed band 72kD

Human Gene ID 3984

Human Swiss-Prot Number P53667

Alternative Names LIMK1; LIMK; LIM domain kinase 1; LIMK-1

Background

There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteinerich 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