ELK Biotechnology

# LIMK-2 (phospho Thr505) rabbit pAb

## Cat No.:ES1353

**For research use only**

### Overview

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| **Product Name** | LIMK-2 (phospho Thr505) 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** | Synthesized phospho-peptide around the phosphorylation site of human LIMK-2 (phospho Thr505) |
| **Specificity** | Phospho-LIMK-2 (T505) Polyclonal Antibody detects endogenous levels of LIMK-2 protein only when phosphorylated at T505. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20℃. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | LIM domain kinase 2 |
| **Gene Name** | LIMK2 |
| **Cellular localization** | Cytoplasm, cytoskeleton, spindle . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .; [Isoform LIMK2a]: Cytoplasm . Nucleus .; [Isoform LIMK2b]: Cytoplasm . Cytoplasm, perinuclear region . Nucleus . Mainly present in the cytoplasm and is scarcely translocated to the nucleus. . |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | |
| **Human Gene ID** | 3985 |

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| **Human Swiss-Prot Number** | P53671 |
| **Alternative Names** | LIMK2; LIM domain kinase 2; LIMK-2 |
| **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. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008], |

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