



# Anti-LIMK1 monoclonal antibody, clone 4H4 (DCABH-928)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| <b>Product Overview</b>    | Mouse monoclonal to LIM Kinase 1  |
| <b>Antigen Description</b> | 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. |
| <b>Immunogen</b>           | Recombinant full length protein of Human LIM Kinase 1 produced in HEK293T cells (NP_002305).  |
| <b>Isotype</b>             | IgG2b   |
| <b>Source/Host</b>         | Mouse   |
| <b>Species Reactivity</b>  | Human   |
| <b>Clone</b>               | 4H4   |
| <b>Conjugate</b>           | Unconjugated  |
| <b>Applications</b>        | WB, ICC/IF  |
| <b>Positive Control</b>    | HEK293T cells transfected with LIM Kinase 1, COS7 cells transiently transfected with LIM Kinase 1   |
| <b>Format</b>              | Liquid  |
| <b>Size</b>                | 100 µl  |
| <b>Buffer</b>              | pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol   |

|                     |   |
|---------------------|---|
| <b>Preservative</b> | 0.02% Sodium Azide                          |
| <b>Storage</b>      | store at -20°C. Avoid freeze / thaw cycles. |
| <b>Ship</b>         | Shipped at 4°C.                             |

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | <a href="#">LIMK1 LIM domain kinase 1 [ Homo sapiens ]</a>  |
| <b>Official Symbol</b>     | LIMK1   |
| <b>Synonyms</b>            | LIMK1; LIM domain kinase 1; LIMK; LIM motif-containing protein kinase; LIMK-1;  |
| <b>Entrez Gene ID</b>      | <a href="#">3984</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_001191355</a>  |
| <b>UniProt ID</b>          | <a href="#">P53667</a>  |
| <b>Chromosome Location</b> | 7q11.23   |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; CDC42 signaling events, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem. |
| <b>Function</b>            | ATP binding; heat shock protein binding; metal ion binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; zinc ion binding;   |