

**Mouse Cdc42bpb Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16159c****Specification**

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**Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q7TT50](#)**Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 217866**Other Names**

Serine/threonine-protein kinase MRCK beta, CDC42-binding protein kinase beta, DMPK-like beta, Myotonic dystrophy kinase-related CDC42-binding kinase beta, MRCK beta, Myotonic dystrophy protein kinase-like beta, MRCKB

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Protein Information****Name** Cdc42bpb {ECO:0000312|EMBL:AAP34402.1, ECO:0000312|MGI:MGI:2136459}**Function**

Serine/threonine-protein kinase which is an important downstream effector of CDC42 and plays a role in the regulation of cytoskeleton reorganization and cell migration. Regulates actin cytoskeletal reorganization via phosphorylation of PPP1R12C and MYL9/MLC2. In concert with MYO18A and LURAP1, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Phosphorylates PPP1R12A (By similarity). In concert with FAM89B/LRAP25 mediates the targeting of LIMK1 to the lamellipodium resulting in its activation and subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation (PubMed:<a href="http://www.uniprot.org/citations/25107909" target="\_blank">25107909</a>).

**Cellular Location**

Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q3UU96}. Note=Displays a dispersed punctate distribution and concentrates along the cell periphery, especially at the leading edge and cell-cell junction. This concentration is PH-domain dependent. Detected at the leading edge of migrating and wounded cells; this localization requires the presence of catalytically active CDC42. Localizes in the lamellipodium in a FAM89B/LRAP25-dependent manner.

{ECO:0000250|UniProtKB:O54874, ECO:0000250|UniProtKB:Q3UU96,  
ECO:0000250|UniProtKB:Q7TT49}

### **Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Images**

### **Mouse Cdc42bpb Antibody (Center) Blocking Peptide - Background**

Cdc42bpb may act as a downstream effector of CDC42 in cytoskeletal reorganization. Contributes to the actomyosin contractility required for cell invasion, through the regulation of MYPT1 and thus MLC2 phosphorylation (By similarity).