

Rabbit anti-Human MRCKbeta Polyclonal Antibody | anti-MRCKbeta antibody

MRCKbeta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322558	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MRCKbeta; Polyclonal Antibody; MRCKbeta Antibody; CDC42 binding protein kinase beta; CDC42-binding protein kinase beta; CDC42BPB; DMPK like beta; DMPK-like beta; KIAA1124; MRCK beta; MRCKB_HUMAN; Myotonic dystrophy kinase related CDC42 binding kinase beta; Myotonic dystrophy kinase-related CDC42-binding kinase beta; Myotonic dystrophy protein kinase like beta; Myotonic dystrophy protein kinase-like beta; Serine/threonine protein kinase MRCK beta; Serine/threonine-protein kinase MRCK beta; anti-MRCKbeta antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	MRCKbeta antibody detects endogenous levels of total MRCKbeta
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1711
Applicable Applications for anti-MRCKbeta antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MRCKbeta
Subcellular Location	Cytoplasm. 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.
Tissue Specificity	Expressed in all tissues examined, with high levels in heart, brain, placenta and lung.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322558 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA322558 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of MRCKbeta using COLO205 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-MRCKbeta antibody

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 (PubMed:21457715, PubMed:21949762). In concert with MYO18A and LURAP1, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration (PubMed:18854160). Phosphorylates PPP1R12A (PubMed:21457715). 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 (By similarity).

Subunit Structure: Homodimer and homotetramer via the coiled coil regions (PubMed:21949762). Interacts tightly with GTP-bound but not GDP-bound CDC42. Interacts with TJP1, when in the presence of catalytically active CDC42 (By similarity). Forms a tripartite complex with MYO18A and LURAP1 with the latter acting as an adapter connecting CDC42BPB and MYO18A. LURAP1 binding results in activation of CDC42BPB by abolition of its negative autoregulation (PubMed:18854160). Interacts with STRIP1, STRN3 and SIKE1 (PubMed:25743393). Interacts with CPNE4 (via VWFA domain). Interacts with LURAP1. Interacts (via AGC-kinase C-terminal domain) with FAM89B/LRAP25 (via LRR repeat). Forms a tripartite complex with FAM89B/LRAP25 and LIMK1 (By similarity).

Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. DMPK subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115527097
NCBI GeneID	9578
NCBI Accession #	NP_006026.3
NCBI GenBank Nucleotide #	NM_006035.3
UniProt Accession #	Q9Y5S2; Q2L7A5; Q86TJ1; Q9ULU5; A9JR72
Molecular Weight	Observed: 194 kDa Predicted: 195 kDa
NCBI Official Full Name	serine/threonine-protein kinase MRCK beta
NCBI Official Synonym Full Names	CDC42 binding protein kinase beta
NCBI Official Symbol	CDC42BPB
NCBI Official Synonym Symbols	MRCKB
NCBI Protein Information	serine/threonine-protein kinase MRCK beta

UniProt Protein Name	Serine/threonine-protein kinase MRCK beta
UniProt Gene Name	CDC42BPB
UniProt Synonym Gene Names	CDC42BP-beta; MRCK beta; Myotonic dystrophy protein kinase-like beta

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/mrckbeta-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322558>