



Rabbit Anti-MRCK alpha antibody

SL10952R

Product Name:	MRCK alpha
Chinese Name:	CDC42Binding protein激酶 α /MRCK α 抗体
Alias:	CDC42 binding protein kinase alpha; CDC42 binding protein kinase alpha (DMPK like); CDC42 binding protein kinase alpha; CDC42 binding protein kinase alpha dmpk like; CDC42 binding protein kinase beta; CDC42-binding protein kinase alpha; CDC42BPA; DKFZp686L1738; DMPK like; DMPK-like alpha; FLJ23347; KIAA0451; MRCK alpha; mrck; mrcka; MRCKA_HUMAN; Myotonic dystrophy kinase related CDC42 binding protein kinase alpha; Myotonic dystrophy kinase-related CDC42-binding kinase alpha; Myotonic dystrophy protein kinase-like alpha; OTTHUMP00000035727; OTTHUMP00000035728; OTTHUMP00000035729; OTTHUMP00000035730; pk428; RP5-1087E8.4; Ser thr protein kinase PK428; Ser thr protein kinase related to the myotonic dystrophy protein kinase; Serine/threonine protein kinase MRCK alpha; Serine/threonine-protein kinase MRCK alpha; DKFZp686P1738; MGC189823; A930014J19Rik.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	197kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MRCK alpha:701-800/1732
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>The protein encoded by this gene is a member of the Serine/Threonine protein kinase family. This kinase contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). This kinase also contains a Rac interactive binding (CRIB) domain, and has been shown to bind CDC42. It may function as a CDC42 downstream effector mediating CDC42 induced peripheral actin formation, and promoting cytoskeletal reorganization. Multiple alternatively spliced transcript variants have been described, and the full-length nature of two of them has been reported. [provided by RefSeq, Jul 2008]</p> <p>Function: 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.</p> <p>Subunit: Homodimer and homotetramer via the coiled coil regions. Interacts tightly with GTP-bound but not GDP-bound CDC42. Forms a tripartite complex with MYO18A and LURAP1 with the latter acting as an adapter connecting CDC42BPA and MYO18A. LURAP1 binding results in activation of CDC42BPA by abolition of its negative autoregulation.</p> <p>Subcellular Location: Cytoplasm. 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.</p> <p>Tissue Specificity: Abundant in the heart, brain, skeletal muscle, kidney, and pancreas, with little or no expression in the lung and liver.</p> <p>Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. DMPK subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 CNH domain. Contains 1 CRIB domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain.</p> <p>SWISS: Q5VT25</p>

Gene ID:
8476

Database links:

[Entrez Gene: 8476](#) Human

[Entrez Gene: 226751](#) Mouse

[Entrez Gene: 114116](#) Rat

[GenBank: NP_003598](#) Human

[GenBank: NP_055641](#) Human

[Omim: 603412](#) Human

[SwissProt: Q5VT25](#) Human

[SwissProt: Q3UU96](#) Mouse

[SwissProt: O54874](#) Rat

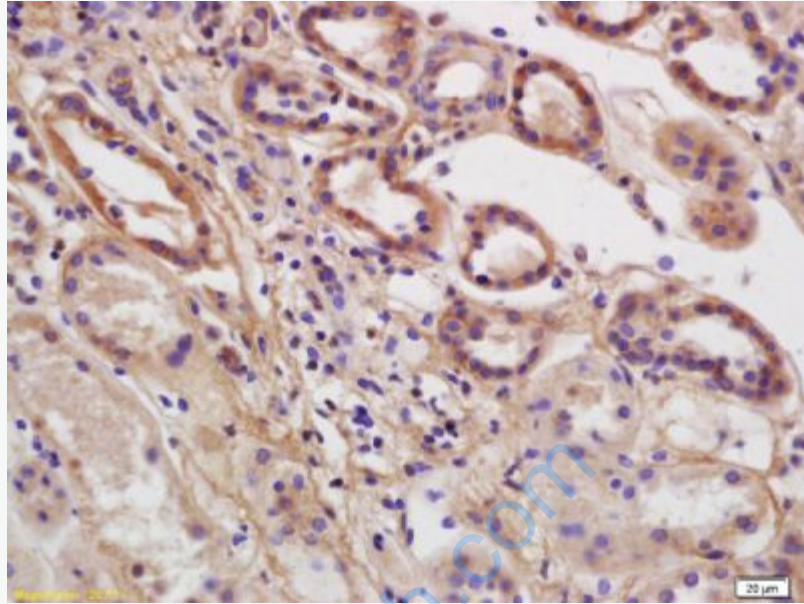
[Unigene: 35433](#) Human

[Unigene: 259655](#) Mouse

[Unigene: 10871](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MRCK alpha Polyclonal Antibody, Unconjugated(SL10952R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining