

MARCKSL1 Rabbit pAb

Catalog # AP97880

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P49006
Other Accession	P49006
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19529
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MARCKSL1
Epitope Specificity	101-195/195
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MARCKS family.
SUBUNIT	Binds to filamentous actin (F-actin), but not to monomeric G-actin, independently of its phosphorylation status.
Post-translational modifications	Phosphorylation at Ser-120 and Thr-178 are non-redundantly catalyzed by MAPK8 in vivo. Phosphorylation at Thr-148 is preferentially catalyzed by MAPK8 in vivo, but this modification can also be catalyzed by other kinases in the absence of MAPK8
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the myristoylated alanine-rich C-kinase substrate (MARCKS) family. Members of this family play a role in cytoskeletal regulation, protein kinase C signaling and calmodulin signaling. The encoded protein affects the formation of adherens junction. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are located on the long arm of chromosomes 6 and 10. [provided by RefSeq, Jun 2012]

Additional Information

Gene ID	65108
Other Names	F52; MACMARCKS; MLP; MLP1; MRP; D4Bc1; Macs2; Macs3; MRP_HUMAN; MARCKSL1; MARCKS-like protein 1; Macrophage myristoylated alanine-rich C kinase substrate (Mac-MARCKS MacMARCKS); MRP_MOUSE; Brain protein F52; MRP_RAT; MARCKS like 1; MARCKS-like protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	MARCKSL1
Synonyms	MLP, MRP
Function	Controls cell movement by regulating actin cytoskeleton homeostasis and filopodium and lamellipodium formation (PubMed: 22751924). When unphosphorylated, induces cell migration (By similarity). When phosphorylated by MAPK8, induces actin bundles formation and stabilization, thereby reducing actin plasticity, hence restricting cell movement, including neuronal migration (By similarity). May be involved in coupling the protein kinase C and calmodulin signal transduction systems (By similarity).
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:P28667}. Cell membrane; Lipid- anchor. Note=Associates with the membrane via the insertion of the N-terminal N-myristoyl chain and the partial insertion of the effector domain. Association of the effector domain with membranes may be regulated by Ca(2+)/calmodulin. Colocalizes with F-actin at the leading edge of migrating cells (By similarity). In prostate cancers, shows strong expression at apical and/or basal regions of the cell and also has weak cytoplasmic expression (PubMed:22751924). {ECO:0000250 UniProtKB:P28667, ECO:0000269 PubMed:22751924}

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