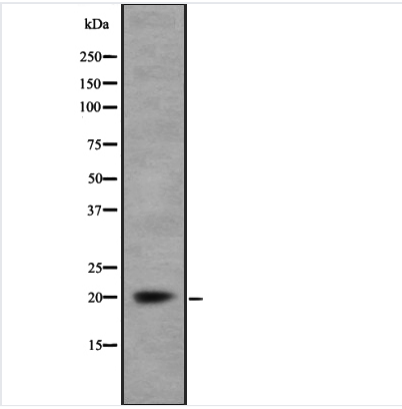
MRP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRP, Polyclonal Antibody
Full Product Name	MRP Antibody
Product Gene Name	anti-MRP antibody
Product Synonym Gene Name	MARCKSL1
Product Synonym Names	F52; Mac MARCKS; Mac-MARCKS; MacMARCKS; Macrophage enriched Myristoylated Alanine Rich C Kinase Substrate Like Protein; Macrophage myristoylated alanine-rich C kinase substrate; MARCKS like 1; MARCKS like protein 1; MARCKS related protein; MARCKS-like protein 1; MARCKS-related protein; MARCKSL1; MLP; MLP1; MRP; MRP_HUMAN
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MRP antibody detects endogenous levels of total MRP
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MRP peptide (MBS9627824) is used for blocking the activity of MRP antibody (MBS9609118)
Molecular Weight	Observed: 20 kDa Predicted: 20 kDa
3D Structure	ModBase 3D Structure for P49006
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MRP
Subcellular Location	Plasma Membrane
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRP antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MRP antibody	WB: 1:1000-3000

Related Product Information for anti-MRP antibody	Function: Controls cell movement by regulating actin cytoskeleton homeostasis and filopodium and lamellipodium formation. When unphosphorylated, induces cell migration. When phosphorylated by MAPK8, induces actin bundles formation and stabilization, thereby reducing actin plasticity, hence restricting cell movement, including neuronal migration. May also affect cancer cell migration. May be involved in coupling the protein kinase C and calmodulin signal transduction systems (By similarity). Subunit Structure: 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 (By similarity). Similarity: Belongs to the MARCKS family.
Other Notes	Small volumes of anti-MRP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MRP purchase	MBS9609118 is an antibody targeting MRP. Also known as MRP Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MRP antibody
Western blot analysis of MRP using Jurkat whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRP. It may not necessarily be applicable to this product.

NCBI GI #	13491174
NCBI GeneID	65108
NCBI Accession #	NP_075385.1
UniProt Primary Accession #	P49006
UniProt Secondary Accession #	Q5TEE6; Q6NXS5; D3DPQ0
UniProt Related Accession #	P49006
GenBank Nucleotide #	NM_023009.6
NCBI Official Full Name	MARCKS-related protein
NCBI Official Synonym Full Names	MARCKS like 1
NCBI Official Symbol	MARCKSL1
NCBI Official Synonym Symbols	F52; MLP; MRP; MLP1; MACMARCKS
UniProt Protein Name	MARCKS-related protein
UniProt Synonym Protein Names	MARCKS-like protein 1; Macrophage myristoylated alanine-rich C kinase substrate; Mac-MARCKS; MacMARCKS
Protein Family	Iron-sulfur cluster carrier protein

UniProt Gene Name	MARCKSL1
UniProt Synonym Gene Names	MLP; MRP; Mac-MARCKS; MacMARCKS
NCBI Protein Information	MARCKS-related protein
NCBI Summary for MRP	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]
UniProt Comments for MRP	Controls cell movement by regulating actin cytoskeleton homeostasis and filopodium and lamellipodium formation (PubMed:22751924). When unphosphorylated, induces cell migration (). When phosphorylated by MAPK8, induces actin bundles formation and stabilization, thereby reducing actin plasticity, hence restricting cell movement, including neuronal migration (). May be involved in coupling the protein kinase C and calmodulin signal transduction systems ().
Research Articles on MRP	**1.** MARCKSL1 showed potent anti-angiogenic activity and reduced the levels of VEGF and HIF-1alpha expression. MARCKSL1 decreased VEGFinduced phosphorylation of the PI3K/Akt signaling pathway components.
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