

**MARCKS Antibody (monoclonal) (M04)****Mouse monoclonal antibody raised against a partial recombinant MARCKS.****Catalog # AT2802a****Specification**

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**MARCKS Antibody (monoclonal) (M04) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P29966</a>
Other Accession	<a href="#">NM_002356</a>
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	31555

**MARCKS Antibody (monoclonal) (M04) - Additional Information****Gene ID** 4082**Other Names**

Myristoylated alanine-rich C-kinase substrate, MARCKS, Protein kinase C substrate, 80 kDa protein, light chain, 80K-L protein, PKCSL, MARCKS, MACS, PRKCSL

**Target/Specificity**

MARCKS (NP\_002347, 2 a.a. ~ 65 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

MARCKS Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

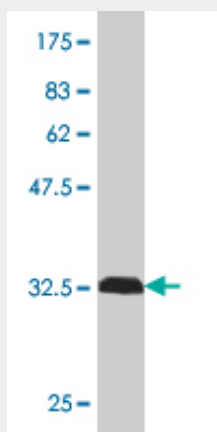
**MARCKS Antibody (monoclonal) (M04) - Protocols**

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

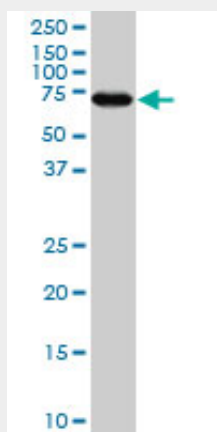
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

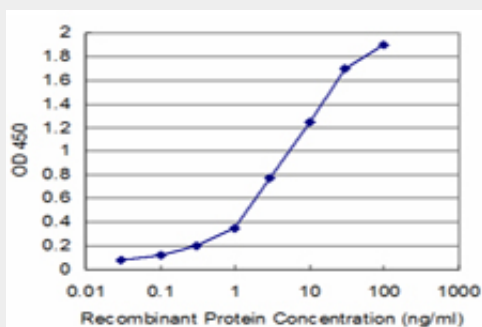
## MARCKS Antibody (monoclonal) (M04) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.78 kDa) .



MARCKS monoclonal antibody (M04), clone 2H4. Western Blot analysis of MARCKS expression in Raw 264.7 ( (Cat # AT2802a )



Detection limit for recombinant GST tagged MARCKS is approximately 0.1 ng/ml as a capture antibody.

**MARCKS Antibody (monoclonal) (M04) - Background**

The protein encoded by this gene is a substrate for protein kinase C. It is localized to the plasma membrane and is an actin filament crosslinking protein. Phosphorylation by protein kinase C or binding to calcium-calmodulin inhibits its association with actin and with the plasma membrane, leading to its presence in the cytoplasm. The protein is thought to be involved in cell motility, phagocytosis, membrane trafficking and mitogenesis.

**MARCKS Antibody (monoclonal) (M04) - References**

MARCKS and related chaperones bind to unconventional myosin V isoforms in airway epithelial cells. Lin KW, et al. Am J Respir Cell Mol Biol, 2010 Aug. PMID 20203291. Myristoylated alanine-rich C kinase substrate phosphorylation promotes cholangiocarcinoma cell migration and metastasis via the protein kinase C-dependent pathway. Techasen A, et al. Cancer Sci, 2010 Mar. PMID 20047593. A cell motility screen reveals role for MARCKS-related protein in adherens junction formation and tumorigenesis. Finlayson AE, et al. PLoS One, 2009 Nov 18. PMID 19924305. Epidermal growth factor receptor variant III-induced glioma invasion is mediated through myristoylated alanine-rich protein kinase C substrate overexpression. Micallef J, et al. Cancer Res, 2009 Oct 1. PMID 19773446. Myristoylated alanine-rich C-kinase substrate (MARCKS) protein regulation of human neutrophil migration. Eckert RE, et al. Am J Respir Cell Mol Biol, 2010 May. PMID 19574534.

**MARCKS Antibody (monoclonal) (M04) - Citations**

- [Dysbindin-1 contributes to prefrontal cortical dendritic arbor pathology in schizophrenia.](#)