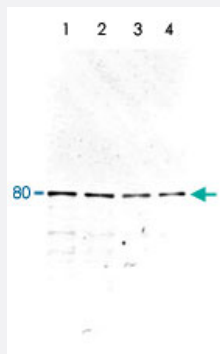


MARCKS polyclonal antibody

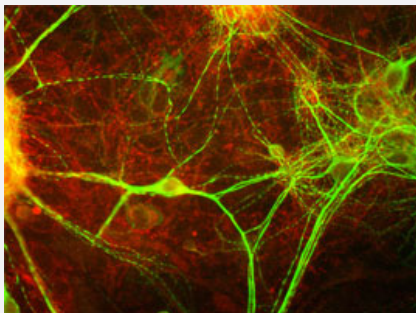
Catalog # PAB14167 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot of whole rat cortex (Lane 1), cerebellum (Lane 2), brain stem (Lane 3) and spinal cord (Lane 4) homogenate stained with MARCKS polyclonal antibody (Cat # PAB14167), at dilution of 1 : 10,000. A prominent band running with an apparent SDS-PAGE molecular weight of ~ 80 KDa corresponds to MARCKS.



Immunofluorescence

View of mixed neuron/glia cultures stained with MARCKS polyclonal antibody (Cat # PAB14167) (red) and Chicken MAP2 polyclonal antibody. Note that the MARCKS antibody stains vesicular structures both in the glial cells and in the dendrites of the neurons, which are strongly stained with the MAP2 antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant MARCKS.
Immunogen	Recombinant protein corresponding to human MARCKS.
Host	Rabbit
Theoretical MW (kDa)	80
Reactivity	Human, Mammals
Form	Liquid

Recommend Usage	Western Blot (1:10000) Immunofluorescence (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In serum (5 mM sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot of whole rat cortex (Lane 1), cerebellum (Lane 2), brain stem (Lane 3) and spinal cord (Lane 4) homogenate stained with MARCKS polyclonal antibody (Cat # PAB14167), at dilution of 1 : 10,000.
A prominent band running with an apparent SDS-PAGE molecular weight of ~ 80 KDa corresponds to MARCKS.

- Immunohistochemistry

- Immunofluorescence

View of mixed neuron/glia cultures stained with MARCKS polyclonal antibody (Cat # PAB14167) (red) and Chicken MAP2 polyclonal antibody.
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- Enzyme-linked Immunoabsorbent Assay

Gene Info — MARCKS

Entrez GeneID	4082
Protein Accession#	DQ341274
Gene Name	MARCKS
Gene Alias	80K-L, FLJ14368, FLJ90045, MACS, PKCSL, PRKCSL
Gene Description	myristoylated alanine-rich protein kinase C substrate
Omim ID	177061
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000017045|myristoylated alanine-rich protein kinase C substrate (MARCKS, 80K-L)|phosphomyristin

Publication Reference

- [MARCKS deficiency in mice leads to abnormal brain development and perinatal death.](#)

Stumpo DJ, Bock CB, Tuttle JS, Blackshear PJ.

PNAS 1995 Feb; 92(4):944.

Application: WB-Ti, Mouse, Mouse brains

- [The MARCKS family of cellular protein kinase C substrates.](#)

Blackshear PJ.

The Journal of Biological Chemistry 1993 Jan; 268(3):1501.

- [MARCKS is an actin filament crosslinking protein regulated by protein kinase C and calcium-calmodulin.](#)

Hartwig JH, Thelen M, Rosen A, Janmey PA, Nairn AC, Aderem A.

Nature 1992 Apr; 356(6370):618.

Application: WB-Ti, Bovine, Brain

Pathway

- [Fc gamma R-mediated phagocytosis](#)