

MARCKS

Reactivity:Human Mouse Rat

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:87kDa

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of human MARCKS

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

MACS; 80K-L; PKCSL; PRKCSL;

Catalog #:A0936

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:4082

Isotype:IgG

Swiss Prot:P29966

Purity:Affinity purification

For research use only.

Background:

The expression of a major cellular substrate for protein kinase C, the MARCKS protein, is regulated in a cell-, tissue-, and developmental stage-specific fashion; in addition, this expression can be stimulated acutely by various cytokines in certain cell types (1). MARCKS binds calmodulin and is a predominant, specific substrate of PKC which is phosphorylated during macrophage and neutrophil activation, growth factor-dependent mitogenesis and neurosecretion; it is redistributed from plasma membrane to cytoplasm when phosphorylated and is involved in leukocyte motility. It has been reported that MARCKS is a filamentous (F) actin crosslinking protein, with activity that is inhibited by PKC-mediated phosphorylation and by binding to calcium-calmodulin. MARCKS may be a regulated crossbridge between actin and the plasma membrane, and modulation of the actin crosslinking activity of the MARCKS protein by calmodulin and phosphorylation represents a potential convergence of the calcium-calmodulin and PKC signal transduction pathways in the regulation of the actin cytoskeleton (2).

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