

MARCKSL1 (D4I9P) Rabbit mAb

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|---------------------------|---------------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------|---------------------------------|
| Applications: W | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 40 | Source/Isotype: Rabbit IgG | UniProt ID: #P49006 | Entrez-Gene Id: 65108 |
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MARCKSL1 (D4I9P) Rabbit mAb recognizes endogenous levels of total MARCKSL1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro186 of human MARCKSL1 protein.

Background

Myristoylated Alanine-Rich C-Kinase Substrate (MARCKS/ MARCKS-like protein 1/ MacMARCKS/ MLP/ MRP) is a widely expressed membrane-bound PKC substrate involved in multiple cellular functions (1). MARCKSL1 is a MARCKS homolog that also serves as a substrate for PKC, and regulates cytoskeletal dynamics, migration, adhesion, and proliferation. In response to phosphorylation by JNK, MARCKSL1 regulates migration and actin dynamics in neuronal and prostate cancer cells (2). In the developing retina, MARCKSL1 regulates cell proliferation, and its expression decreases as retinal development progresses (3). Researchers have shown that MARCKSL1 may serve as a prognostic marker in lymph node-negative breast cancer (4).

Background References

1. Ramsden, J.J. (2000) *Int J Biochem Cell Biol* 32, 475-9.
2. Björkblom, B. et al. (2012) *Mol Cell Biol* 32, 3513-26.
3. Zhao, J. et al. (2007) *Biochem J* 408, 51-9.
4. Jonsdottir, K. et al. (2012) *Breast Cancer Res Treat* 135, 381-90.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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