

Phospho-MARCKS (Ser159/163) (D13D2) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75 (rodent), 80 (human)	Source/Isotype: Rabbit IgG	UniProt ID: #P29966	Entrez-Gene Id: 4082
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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		Phospho-MARCKS (Ser159/163) (D13D2) Rabbit mAb recognizes endogenous levels of MARCKS protein when phosphorylated at Ser159 and Ser163 (human residues).				
Species predicted to react based on 100% sequence homology		Monkey, Chicken, Xenopus, Zebrafish, Bovine, Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser159 and Ser163 of human MARCKS protein.				
Background		Myristoylated Alanine-Rich C-Kinase Substrate (MARCKS) is a major PKC substrate expressed in many cell types. MARCKS has been implicated in cell motility, cell adhesion, phagocytosis, membrane traffic, and mitogenesis (1). PKC phosphorylates Ser159, 163, 167, and 170 of MARCKS in response to growth factors and oxidative stress. Phosphorylation at these sites regulates the calcium/calmodulin binding and filamentous (F)-actin cross-linking activities of MARCKS (2-4). Phosphorylation by PKC also results in translocation of MARCKS from the plasma membrane to the cytoplasm (5).				
Background References		 Ramsden, J.J. (2000) Int J Biochem Cell Biol 32, 475-9. Heemskerk, F.M. et al. (1993) Biochem Biophys Res Commun 190, 236-41. Graff, J.M. et al. (1989) J Biol Chem 264, 21818-23. Hartwig, J.H. et al. (1992) Nature 356, 618-22. Thelen, M. et al. (1991) Nature 351, 320-2. 				
Species Reacti	vity	Species reactivity is de	etermined by testing	in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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