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#2741

Phospho-MARCKS (Ser152/156) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75 mouse, rat. 80 human.	Source/Isotype: Rabbit	UniProt ID: #P29966	Entrez-Gene Id: 4082
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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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-MARCKS (Ser152/156) Antibody detects endogenous levels of MARCKS only when phosphorylated at serines 152 and 156 .	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser152/156 of rat MARCKS. Antibodies are purified by protein A and peptide affinity chromatography.	
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	<ol style="list-style-type: none"> 1. Ramsden, J.J. (2000) <i>Int J Biochem Cell Biol</i> 32, 475-9. 2. Heemskerk, F.M. et al. (1993) <i>Biochem Biophys Res Commun</i> 190, 236-41. 3. Graff, J.M. et al. (1989) <i>J Biol Chem</i> 264, 21818-23. 4. Hartwig, J.H. et al. (1992) <i>Nature</i> 356, 618-22. 5. Thelen, M. et al. (1991) <i>Nature</i> 351, 320-2. 	

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 BSA, 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 R: Rat
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