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Phospho-Ezrin (Thr567)/Radixin (Thr564)/Moesin (Thr558) (41A3) Rabbit mAb



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Sensitivity: Endogenous	MW (kDa): 75 Moesin. 80 Ezr Radixin.	Source/Isotype: in, Rabbit IgG	UniProt ID: #P15311, #P35241, #P26038	Entrez-Gene Id: 7430, 5962, 4478		
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-Ezrin (Thr567)/Radixin (Thr564)/Moesin (Thr558) (41A3) Rabbit mAb detects endogenous levels of ezrin, radixin and moesin only when phosphorylated at Thr567, 564 or 558, respectively. This antibody does not cross-react with related phospho-proteins such as merlin or band 4.1.				
Species predicted to react based on 100% sequence homology		Xenopus, Dog, C. elegans				
		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr567 of human ezrin.				
Background The ezrin, radixin, and moesin (ERM) proteins function as linkers between the the actin cytoskeleton and are involved in cell adhesion, membrane ruffling, at (1). ERM proteins undergo intra or intermolecular interaction between their an terminal domains, existing as inactive cytosolic monomers or dimers (2). Phose terminal threonine residue (Thr567 of ezrin, Thr564 of radixin, Thr558 of moese and carboxy-terminal association and may play a key role in regulating ERM pr function (3,4). Phosphorylation at Thr567 of ezrin is required for cytoskeletal resoncegene-induced transformation (5). Ezrin is also phosphorylated at tyrosine factor stimulation. Phosphorylation of Tyr353 of ezrin transmits a survival sign differentiation (6).		nesion, membrane ruffling, and microvilli formation interaction between their amino- and carboxy- nonomers or dimers (2). Phosphorylation at a carboxy- 64 of radixin, Thr558 of moesin) disrupts the amino- key role in regulating ERM protein conformation and is required for cytoskeletal rearrangements and o phosphorylated at tyrosine residues upon growth				
Background References		1. Tsukita, S. and Yonemura, S. (1999) <i>J Biol Chem</i> 274, 34507-10. 2. Mangeat, P. et al. (1999) <i>Trends Cell Biol</i> 9, 187-92. 3. Matsui, T. et al. (1998) <i>J Cell Biol</i> 140, 647-57. 4. Gautreau, A. et al. (2000) <i>J Cell Biol</i> 150, 193-203. 5. Tran Quang, C. et al. (2000) <i>EMBO J</i> 19, 4565-76. 6. Gautreau, A. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 7300-5.				
Species Reacti	vity	Species reactivity is deter	rmined by testing in at le	ast one approved application (e.g., western blot).		
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