

Orders: 877-616-CELL (2355)
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

#3726 Store at -20C

Phospho-Ezrin (Thr567)/Radixin (Thr564)/Moesin (Thr558) (48G2) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-IC	H M R Mk	Endogenous	75 Moesin. 80 Ezrin, Radixin.	Rabbit IgG	#P15311, #P35241, #P26038	7430, 5962, 4478

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunohistochemistry (Paraffin)	1:200 - 1:800
	Immunofluorescence (Immunocytochemistry)	1:100 - 1:400
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.	
	For a carrier free (BSA and azide free) version of this product see product #32600.	
Specificity/Sensitivity	Phospho-Ezrin (Thr567)/Radixin (Thr564)/Moesin (Thr558) (48G2) Rabbit mAb is phospho-specific by peptide-ELISA and exhibits a large signal to noise window. The antibody does not recognize the non-phosphorylated peptide in peptide based ELISA.	
Species predicted to react based on 100% sequence homology	Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr567 of human ezrin protein.	
Background	The ezrin, radixin, and moesin (ERM) proteins function as linkers between the plasma membrane and the actin cytoskeleton and are involved in cell adhesion, membrane ruffling, and microvilli formation (1). ERM proteins undergo intra or intermolecular interaction between their amino- and carboxy-terminal domains, existing as inactive cytosolic monomers or dimers (2). Phosphorylation at a carboxy-terminal threonine residue (Thr567 of ezrin, Thr564 of radixin, Thr558 of moesin) disrupts the amino- and carboxy-terminal association and may play a key role in regulating ERM protein conformation and function (3,4). Phosphorylation at Thr567 of ezrin is required for cytoskeletal rearrangements and oncogene-induced transformation (5). Ezrin is also phosphorylated at tyrosine residues upon growth factor stimulation. Phosphorylation of Tyr353 of ezrin transmits a survival signal during epithelial differentiation (6).	
Background References	<ol style="list-style-type: none"> 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 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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey	
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