Phospho-Ezrin (Tyr353) Antibody





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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit	UniProt ID: #P15311	Entrez-Gene Id: 7430		
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/Sen	sitivity	Phospho-Ezrin (Tyr353) Antibody detects endogenous levels of Ezrin only when phosphorylated at tyrosine 353. The antibody does not cross-react with phosphorylated Moesin or Radixin.						
Species predict based on 100% homology	ed to react sequence	eact Dog nce						
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr353 of human Ezrin. Antibodies are purified by protein A and peptide affinity chromatography.						
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 Re	eferences	 Tsukita, S. and Yonemura, S. (1999) <i>J Biol Chem</i> 274, 34507-10. Mangeat, P. et al. (1999) <i>Trends Cell Biol</i> 9, 187-92. Matsui, T. et al. (1998) <i>J Cell Biol</i> 140, 647-57. Gautreau, A. et al. (2000) <i>J Cell Biol</i> 150, 193-203. Tran Quang, C. et al. (2000) <i>EMBO J</i> 19, 4565-76. Gautreau, A. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 7300-5. 						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 K	ey	W: Western Blotting						
Cross-Reactivit	y Key	H: Human						
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