Image: Display to the problem (Contactin Antibody) Image: Display to the problem (Contactin Antibidy)</

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Applications: W, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80, 85	Source/Isotype: Rabbit	UniProt ID: #Q14247	Entrez-Gene Id: 2017
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50	
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		Cortactin Antibody detects endogenous levels of total cortactin protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human cortactin. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Cortactin is a cortical actin binding protein. Its amino-terminal acidic domain (NTA) associates with the Arp2/3 and WASP complex at F-actin branches. The central region of the protein contains six repeats of 37 amino acids that are important in F-actin binding and cross-linking. The carboxy-terminus contains a proline-rich region and an SH3 domain that can interact with numerous scaffolding proteins, such as CortBP1 and Shank3 (1,2). Cortactin is involved in signaling events that coordinate actin reorganization during cell movement. The human cortactin homologue EMS1 is overexpressed in numerous cancers with poor patient prognosis (3). Cortactin may also play an important role in the organization of transmembrane receptors at postsynaptic densities (PSD) and tight junctions by linking scaffolding proteins to the actin network (4). Cortactin is phosphorylated at tyrosine residues 421, 466, and 482. Tyrosine phosphorylation of cortactin regulates cell motility (5), rac1-mediated actin dynamics (6), cadherin-dependent adhesion (7), chemokine trafficking and chemokine-dependent chemotaxis (8).				
Background References		 Du, Y. et al. (1998) <i>Mol Cell Biol</i> 18, 5838-51. Naisbitt, S. et al. (1999) <i>Neuron</i> 23, 569-82. Rodrigo, J.P. et al. (2000) <i>Clin Cancer Res</i> 6, 3177-82. Weed, S.A. and Parsons, J.T. (2001) <i>Oncogene</i> 20, 6418-34. Huang, C. et al. (1998) <i>J Biol Chem</i> 273, 25770-6. Head, J.A. et al. (2003) <i>Mol Biol Cell</i> 14, 3216-29. El Sayegh, T.Y. et al. (2004) <i>J Cell Sci</i> 117, 5117-31. Luo, C. et al. (2006) <i>J Biol Chem</i> 281, 30081-93. 				
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 IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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