Plectin-1 Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 400-500	Source/Isotype: Rabbit	UniProt ID: #Q15149	Entrez-Gene Id: 5339
Product Usage Information	:	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Plectin-1 Antibody detects endogenous levels of total plectin-1 protein. The antibody is expected to cross-react with all isoforms of plectin-1 based on the sequence of the immunogenic peptide.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the central sequence of human plectin-1.				
Background		Plectin is a large, widely expressed protein that crosslinks the intermediate filament and actin cytoskeleton, mechanically stabilizing cells and tissues. Plectin also plays a role in the regulation of actin dynamics and acts as a scaffold for signaling molecules (1). Plectin is important in the stabilization of hemidesmosomes, crosslinking them to the intermediate filament network. Research studies have shown that mutations in plectin and other genes coding for hemidesmosomal proteins can cause epidermolysis bullosa, a condition manifested by fragile skin and frequent blistering (1,2). Plectin modulates signals to PKC through binding and sequestration of RACK1, the receptor for activated C kinase 1 (3,4). Plectin is also involved in the regulation of cytokeratin architecture and cell stress response (4), signaling through the chemokine receptor CXCR4 (5) and regulation of AMP-activated protein kinase (AMPK) activity and signaling in mouse myotubes (6).				
Background References		 Wiche, G. (1998) J Cell Sci 111 (Pt 17), 2477-86. Pfendner, E. et al. (2005) Exp Dermatol 14, 241-9. Osmanagic-Myers, S. and Wiche, G. (2004) J Biol Chem 279, 18701-10. Osmanagic-Myers, S. et al. (2006) J Cell Biol 174, 557-68. Ding, Y. et al. (2008) Exp Cell Res 314, 590-602. Gregor, M. et al. (2006) J Cell Sci 119, 1864-75. 				

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 Mk: Monkey

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