e at -20C	Plectin-1 (D6A11) Rabbit mAb		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 400-500	Source/Isotype: Rabbit IgG	UniProt ID: #Q15149	Entrez-Gene Id: 5339		
Product Usage	Ар	plication				Dilution		
Information	We	stern Blotting				1:1000		
	Imr	nunoprecipitation				1:50		
	Imr	nunofluorescence (I	mmunocytochem	nistry)		1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		Plectin-1 (D6A11) Rabbit mAb recognizes endogenous levels of total plectin-1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu2980 of human plectin-1 protein.						
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	Spec	ies reactivity is dete	rmined by testing) in at least one approve	ed application (e.g., w	vestern 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		WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity K	Χ: Χε	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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