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## **Plectin-1 Antibody**



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Applications: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** Entrez-Gene Id: WB H Mk Endogenous 400-500 Rabbit #Q15149 5339 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -**Storage** 20°C. Do not aliquot the antibody. Plectin-1 Antibody detects endogenous levels of total plectin-1 protein. The antibody is expected to cross-Specificity / Sensitivity react with all isoforms of plectin-1 based on the sequence of the immunogenic peptide. Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the Source / Purification central sequence of human plectin-1. Plectin is a large, widely expressed protein that crosslinks the intermediate filament and actin cytoskeleton, Background 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** 

- 1. Wiche, G. (1998) J Cell Sci 111 ( Pt 17), 2477-86.
- 2. Pfendner, E. et al. (2005) Exp Dermatol 14, 241-9.
- 3. Osmanagic-Myers, S. and Wiche, G. (2004) J Biol Chem 279, 18701-10.
- 4. Osmanagic-Myers, S. et al. (2006) J Cell Biol 174, 557-68.
- 5. Ding, Y. et al. (2008) Exp Cell Res 314, 590-602.
- 6. 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** 

WB: Western Blotting

**Cross-Reactivity Key** 

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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