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Product datasheet for BP5115

Plectin (PLEC) (C-term) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Immunoblotting:** 1/16,000 for Western blot (ECL). **Cytological Material.** **Immunohistochemistry on Frozen Sections.** **Immunohistochemistry on Paraffin Sections:** 1/500 (enhanced after microwave treatment). ***Incubation time:*** 1 h at RT; extended with paraffin sections.
Reactivity:	Bovine, Fish, Human, Mouse, Xenopus
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	C-terminal "C" domain of Human recombinant Plectin (aa 4367-4684).
Specificity:	Calculated MW 532,000 protein plectin, localizing to plasma membrane attachment sites of intermediate filaments and microfilaments (actin) such as desmosomes and hemidesmosomes, Z-line structures and dense plaques of striated and smooth muscle. Strong positive reaction is also found with endothelia, fibroblasts and infiltrating cells (e.g. lymphocytes). Human glia cells are specifically detected. **Tested Reactivity on Cultured Cell lines:** HL-60, Huvec (human umbilical cord endothelial cell line), BMGE, 3T3.
Formulation:	State: Serum State: Whole antiserum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 5339 Human Q15149

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Background: Plectin, a 500-kDa intermediate filament binding protein, is localized to the cytoplasm and acts to both stabilize and give strength to cells via cross-linking. Plectin cross-links intermediate filaments to microtubules and microfilaments, and anchors intermediate filaments to the plasma and nuclear membranes. Plectin binds many proteins, including actin, vimentin, and Lamin B. Phosphorylation by PKA or PKC results in decreased binding to Lamin B, and phosphorylation by PKA enhances the plectin-vimentin interactions.

Synonyms: PLEC, Plectin-1, PLEC1, PCN, PLTN