



Anti plectin monoclonal antibody(N-terminal)

Product type	Primary Antibodies
Immunogen	An expressed recombinant His-tagged fusion protein of human plectin (U53204, 173 - 595aa)
Clone number	PN753
Isotype	IgG1
Host	Mouse
Formulation	Hybridoma supernatant with 0.02% NaN ₃ as a preservative.
Volume	500ul
Label	Unlabeled
Specificity	N-terminal region of plectin
Cross reactivity	Human, rat, rabbit, pig
Storage	Store at -20°C or -70°C in small aliquots for prolonged storage. Repeated freeze-thaw cycles can damage the immunoreactivity of an antibody.

Application notes

Recommended use	WB, IF, IP Not tested yet in other applications.
Recommended dilutions	Western Blot: 1:100–1:400 for detection of about 500 kDa polypeptide in keratinocyte cell lysates. Immunohistochemistry: 1:100-1:400 for staining of acetone-fixed cryostat tissue sections. Optimal dilutions must be determined by end user.
References	Hirako Y, Yonemoto Y, Yamauchi T, Nishizawa Y, Kawamoto Y, Owaribe K. Isolation of a hemidesmosome-rich fraction from a human squamous cell carcinoma cell line. Exp. Cell Res., 324:172-182, 2014

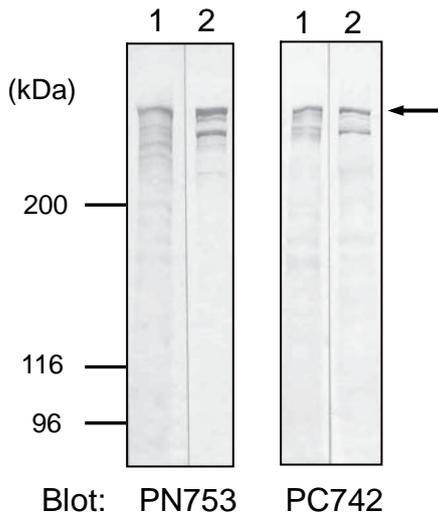


Fig.1 Western blot analysis

Whole cell lysates prepared from DJM-1 cells (lane 1) and HeLa cells (lane 2) were immunoblotted with PN753 or PC742 at 1:200 dilution.

Plectin antibodies detected approximate 500 kDa bands in these cell lysates (arrow).

Smaller polypeptide found in lane 2 may be a degraded product or alternatively spliced rod-less isoform of plectin.

Polypeptides were separated by SDS-PAGE (5% separating gel).



Fig.2 Location of the epitopes for the plectin antibodies PN753 and PC742 clones were obtained by immunizing mice with the NH₂- (173-595aa) or the COOH-terminal (2,930-3,153aa) regions of human plectin (4,574aa), respectively. Gray box represents a predicted coiled-coil region (1,300-2,600aa).

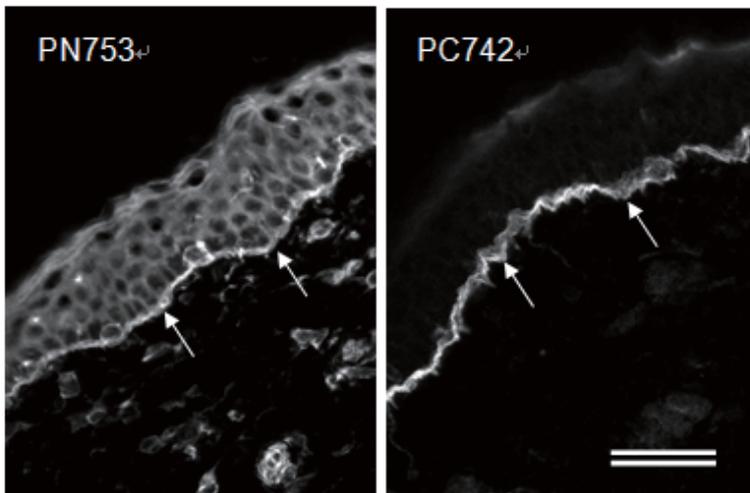


Fig.3 Immunofluorescence microscopy of human skin Human skin sections were stained with PC742 (1:100 dilution) or PN753 (1:100 dilution). Arrows indicate dermal-epidermal junctions. PN753 stains epidermal cells in addition to hemidesmosomes at the dermal-epidermal junction. Sections were fixed with -20°C acetone for 10 min. Bar: 50um.

For research use only, Not for diagnostic use.



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