COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No.NU-01-PLC

Anti plectin monoclonal antibody(C-terminal)

Product type	Primary Antibodies
Immunogen	An expressed recombinant His-tagged fusion protein of human Plectin (U53204, 2,930 - 3,153aa).
Clone number	PC742
Isotype	IgG1
Host	Mouse
Formulation	Hybridoma supernatant with 0.02% NaN3 as a preservative.
Volume	500ul
Label	Unlabeled
Specificity	C-terminal region of plectin
Cross reactivity	Human, mouse, rabbit. pig, bovine
Storage	Store at –20℃ or –70℃ 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: 1:50–1:200 for detection of about 500 kDa polypeptide in keratinocyte cell lysates

Immunohistochemistry: 1:50-1:200 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

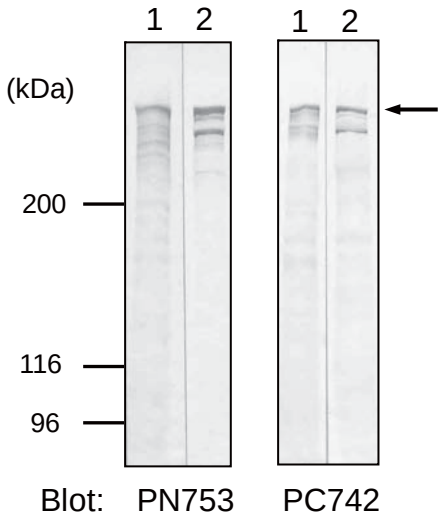

Fig.1 Western blot analysis

Whole cell lysaes 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.

Polypeptiedes 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).

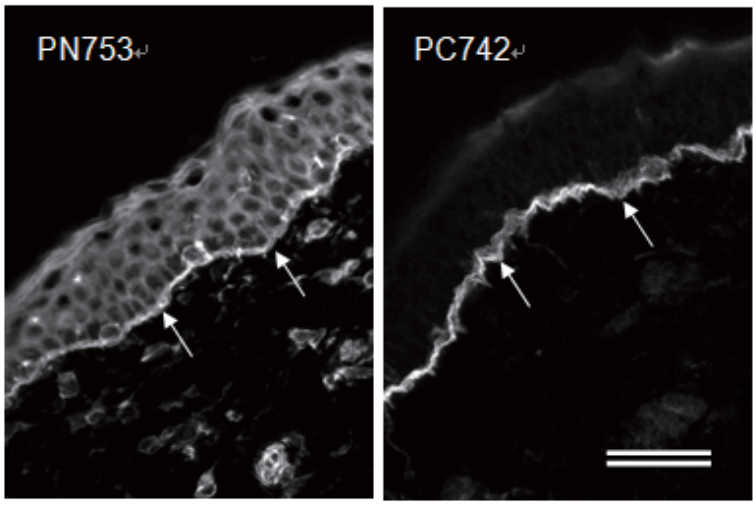

Fig.3 Immunofluorescence microscopy of human skin

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℃ acetone for 10 min. Bar: 50um.

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