



MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No. NU-01-BP2**Anti BP180/type XVII collagen**

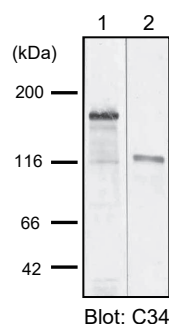
Product type	Primary Antibodies
Immunogen	A GST tagged fusion protein containing the COOH-terminal portion of human BP180 (AB900157, Ile1188–Pro1497)
Clone number	C34
Isotype	Mouse IgG1, kappa
Host	Mouse
Formulation	Hybridoma supernatant with 0.02% NaN ₃ as a preservative.
Volume	500 µL
Label	Unlabeled
Specificity	BP180/type XVII collagen/BPAG2
Cross reactivity	Human
Storage	Store at -20°C or -70°C in small aliquots for prolonged storage. Repeated freeze-thaw cycles can damage immunoreactivity of the antibody.

Application notes	Recommended use WB, IF, IP Not tested yet in other applications.
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Recommended dilutions

- Western Blot: 1:50-1:250 for detection of a 180-kDa full-length polypeptide in keratinocyte cell lysate.
 - Immunofluorescence: 1:50-1:250 for staining of acetone-fixed cryostat frozen tissue sections.
- Optimal dilutions must be determined by end user.

References	<ol style="list-style-type: none">1) Yamauchi T., <i>et al.</i> (2014) Major cleavage-dependent epitopes for linear IgA bullous dermatosis are formed at the boundary between the non-collagenous 16A and collagenous 15 domains of BP180. <i>J Dermatol Sci.</i>, 76: 25-33. PMID: 251765902) Hirako Y., <i>et al.</i> (2014) Isolation of a hemidesmosome-rich fraction from a human squamous cell carcinoma cell line. <i>Exp Cell Res.</i>, 324: 172-82. PMID: 247266103) Hirako Y., <i>et al.</i> (1998) Cleavage of BP180, a 180-kDa bullous pemphigoid antigen, yields a 120-kDa collagenous extracellular polypeptide. <i>J Biol Chem.</i>, 273: 9711-7. PMID: 9545306
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Example Assay Data**Fig. 1 Western blot analysis**

TritonX-100 insoluble cytoskeletal fraction (lane 1) and concentrated conditioned medium (lane 2) prepared from DJM-1 cells were immunoblotted with the C34 antibody (1:200 dilution).

The C34 antibody detected a band at approximately 180 kDa in lane 1. This antibody also reacted with a 120-kDa shed ectodomain of BP180 in lane 2. Polypeptides were separated by SDS-PAGE (7.5% separating gel).

Example Assay Data

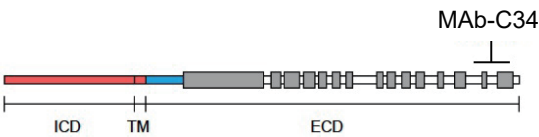


Fig. 2 Location of the epitope for the C34 antibody
The C34 antibody does not react with the 100-kDa extracellular fragment of BP180, which lacks the COOH-terminal portion (ref. 1). The result indicates that the C34 antibody recognizes an epitope locates at the COOH-terminal portion of about 20 kDa. ICD, TM and ECD represent for intracellular, transmembrane and extracellular domains. Collagenous domains are shown by gray boxes.

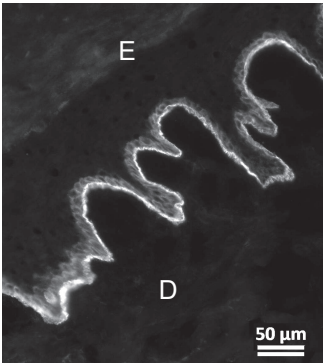


Fig. 3 Immunofluorescence microscopy of human skin
A human skin section was stained with C34 antibody at 1:200 dilution. The antibody revealed the location of BP180 molecules at the dermal-epidermal junction (arrow). E: epidermis, D: dermis. Bar = 50 um. Frozen sections were prepared as described previously (ref. 3).

RELATED PRODUCTS:

Product Name	Clone	Maker	Cat#
Anti Plectin Monocolonal antibody	PN753	CAC	NU-01-PLN
Anti Laminin γ2 chain Monocolonal antibody	YN557	CAC	NU-01-LA2
Anti BP180/type XVII collagen Monocolonal antibody	C34	CAC	NU-01-BP2
Anti Keratin 8 chain Monocolonal antibody	RL273	CAC	NU-01-KE8

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