



# Anti BP180/type XVII collagen monoclonal antibody

<b>Product type</b>	Primary Antibodies
<b>Immunogen</b>	A GST tagged fusion protein containing the COOH-terminal portion of human BP180 (AB900157, Ile1188–Pro1497)
<b>Clone number</b>	C34
<b>Isotype</b>	Mouse IgG1, kappa
<b>Host</b>	Mouse
<b>Formulation</b>	Hybridoma supernatant with 0.02% NaN <sub>3</sub> as a preservative.
<b>Volume</b>	500ul
<b>Label</b>	Unlabeled
<b>Specificity</b>	BP180/type XVII collagen/BPAG2
<b>Cross reactivity</b>	Human
<b>Storage</b>	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.

### 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

- (1) Yamauchi T., et al. *J. Dermatol. Sci.*, 76:25-33 (2014)
- (2) Hirako Y., et al. *Exp. Cell Res.*, 324:172-182 (2014)
- (3) Hirako Y., et al. *J. Biol. Chem.*, 273:9711-9717 (1998)

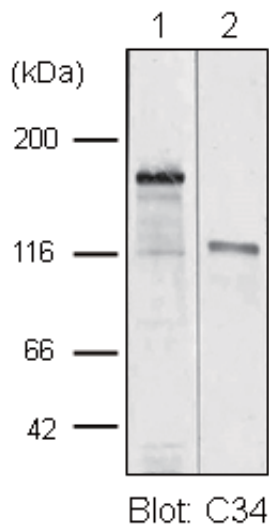


Fig.1 Western blot analysis

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).

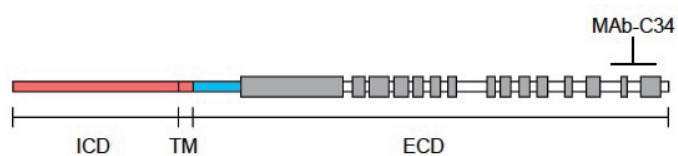


Fig.2 Location of the epitope for the C34 antibody

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 located 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.

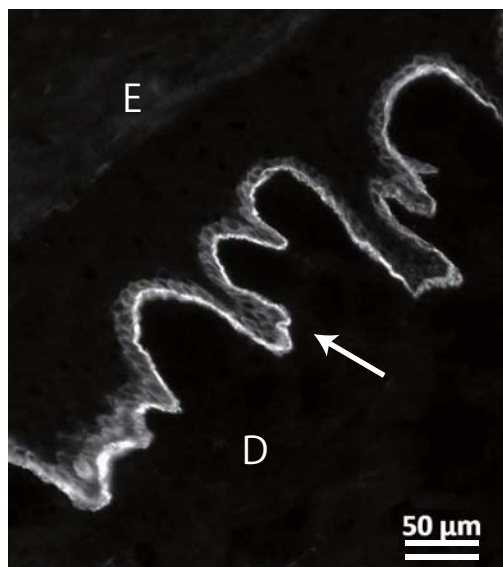


Fig.3 Immunofluorescence microscopy of human skin

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 μm. Frozen sections were prepared as described previously (ref. 3).

For research use only, Not for diagnostic use.



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