

#### MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

## Catalog No.NU-01-BP2

# Anti BP180/type XVII collagen monoclonal antibody

**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% NaN3 as a preservative.

Volume 500ul

Label Unlabeled

**Specificity** BP180/type XVII collagen/BPAG2

Cross reactivity Human

**Storage** Store at  $-20^{\circ}$ C or  $-70^{\circ}$ 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** Western Blot: 1:50–1:250 for detection of a 180-kDa full-length polypeptide in keratinocyte cell lysate.

**dilutions** 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)

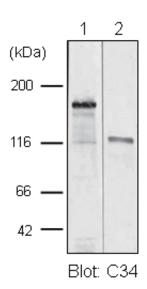


Fig.1 Western blot analysis

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. Polypeptiedes 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 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.

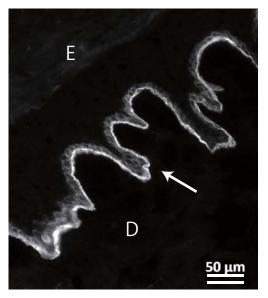


Fig.3 Immunofluorescence microscopy of human skin

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).

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