

Product code	70-350
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium.
Immunogen	Native laminin α -3 chain from bovine cornea
Isotype	Mouse IgG1ĸ
Reactivity	Laminin α -3 (Human, Rabbit, Bovine)
	No reactivity against other laminin chains
Special notes	N/A
Application	1. Western blotting: x1/1,000-2,500 (Fig.1)
	2. Immunofluorescence microscopy x1/250-500 (Fig.2,3)
Background	Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. Laminins have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis, by interacting with other extracellular matrix components. Laminins are heterotrimeric proteins with a high molecular mass (~400 to ~900 kDa). They contain three different chains (α , β and γ) encoded by a distinct genes, respectively. Laminin subunit α -3 in humans is encoded by the LAMA3 gene, known as 165 kDa subunit, and thought to be involved in cell adhesion, signal transduction and differentiation of keratinocytes.
Data Link	UniProtKB: <u>Q16787</u> (LAMA3_HUMAN)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Anti-Laminin alpha-3 antibody, mouse monoclonal (BM515)



Data Images: 70-350 Anti-Laminin alpha-3 antibody, mouse monoclonal (BM515)

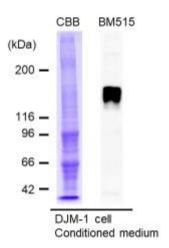


Fig. 1 Western blot analysis of BM515 antibody

Conditioned medium prepared from DJM-1 cells was concentrated by ammonia sulfate precipitation, and was stained with CBB and immunoblotted with BM515 antibody (1:2,500 dilution). The HRP-conjugated goat anti-mouse IgG was used as the second antibody. This antibody detected 165-kDa band, a processed form of laminin α -3 chain. Protein bands were visualized using a chemiluminescent detection with EzWestLumi plus kit (ATTO, Tokyo, Japan).

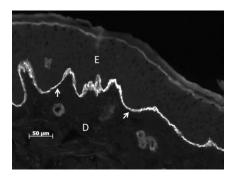


Fig.2 Immunofluorescence microscopy of human skin

A frozen acetone-fixed human skin section was stained with BM515 antibody (1:500 dilution). FITCconjugated goat anti-anti-mouse IgG as second antibody. The antibody revealed the location of laminin-3 chain at the dermal-epidermal junction (arrows). E: epidermis, D: dermis. Bar = 50 μ m.



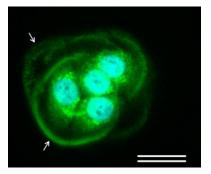


Fig. 3 Immunofluorescence microscopy of DJM-1 cells

Methanol-fixed human carcinoma derived DJM-1 cells were stained with BM515 antibody (1:500 dilution, green) and DAPI (blue). The FITC-conjugated goat anti-mouse IgG was used as the second antibody. The antibody detected arc- or spotted staining patterns (arrows), which are typical for deposited laminin-332 in DJM-1 cells. Bar = $20 \mu m$.

Reference

- Hirako Y., Yoshino K., Zillikens D., Owaribe K. Extracellular cleavage of bullous pemphigoid antigen 180/type XVII collagen and its involvement in hemidesmosomal disassembly. J Biochem. 133: 197-206, 2003
- 2. Uematsu J., Nishizawa Y., Hirako Y., Kitamura K., Usukura J., Miyata T., Owaribe K. Both type-I hemidesmosomes and adherens-type junctions contribute to the cell-substratum adhesion system in myoepithelial cells. Eur J Cell Biol. 84: 407-415, 2005.
- 3. Owaribe K, Nishizawa Y, Franke WW. Isolation and characterization of hemidesmosomes from bovine corneal epithelial cells. Exp Cell Res. 192:622-630, 1991.

Related product

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