



CELL LAB Rat Anti-Mouse CD104 (β 4 Integrin)

Cat. No.	Form	Quantity
732332	Purified (UNLB) Antibody	0.5 mg

For Laboratory Use Only

DESCRIPTION

- Clone:** 346-11A
Isotype: Rat (Fischer 344) IgG2 α k
Immunogen: Tumor-associated antigen TSP-180 immunoaffinity purified from a transplantable Balb/c mouse lung cell carcinoma.¹
Specificity: Integrin β ₄ chain (CD104), Mr 200 kDa

CD104 represents the integrin β ₄ subunit that associates non-covalently with integrin α ₆ (CD49f) to form the α ₆ β ₄ integrin heterodimer.^{2,3} The α ₆ β ₄ complex is expressed on the basal surface of a variety of epithelial cell types, particularly on stratified squamous epithelia. It is also found in peripheral nerves, in certain subsets of endothelial cells, and on immature thymocytes,³⁻⁵ and has been found to be associated with a number of malignant tissues⁶ Hemidesmosomal α ₆ β ₄ plays an important role in the adhesion of epithelial cells to basement membranes via interactions with laminin and/or kalinin anchoring filaments.⁷ It is not known if monoclonal antibody 346-11A can block this adhesion.

APPLICATIONS

- Immunohistochemistry (acetone-fixed, frozen sections)
- Immunoprecipitation^{2,4}
- Western blotting^{2,4}

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using immunohistochemical staining.

WORKING DILUTIONS

Immunohistochemistry: Purified antibody 1-5 μ g/mL

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use Good Laboratory Practice (GLP) when handling this reagent.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

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7. Sonnenberg A, Calafat J, Janssen H, Daams H, van der Raaij-Helmer LM, Falcioni R, Kennel SJ, Aplin JD, Baker J, and Loizidou M. 1991. Integrin alpha 6/beta 4 complex is located in hemidesmosomes, suggesting a major role in epidermal cell-basement membrane adhesion. *J Cell Biol*, 113:907-917.



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