

# Laminin-5 (CM6): sc-32794

## BACKGROUND

Laminin-5 is a glycoprotein complex of three subunits (laminin - $\alpha$ 3, - $\beta$ 3, and - $\gamma$ 2) that influences cell adhesion (metastasis), signal transduction and keratinocyte differentiation. Laminin-5 localizes to the basal lamina underneath epithelia and mediates the anchoring of basal epithelial cells to the extracellular matrix (ECM). Differential processing of the subunits of the Laminin-5 precursor influences how this protein integrates into the ECM architecture.

## REFERENCES

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## SOURCE

Laminin-5 (CM6) is a mouse monoclonal antibody mapping the globular (G) carboxyterminal domain of the  $\alpha$ -3 subunit of Laminin-5.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for prevents adhesion to rat  $\alpha$ -3 subunit, sc-32794 L, 200  $\mu$ g/0.1 ml.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

Laminin-5 (CM6) is recommended for detection of  $\alpha$ -3 subunit of Laminin-5, 6 and 7 of rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with human or mouse  $\alpha$ -3 chain.

Molecular Weight of Laminin-5: 170 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgG<sub>κ</sub> BP-HRP: sc-516102 or m-IgG<sub>κ</sub> BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
- 3) Immunofluorescence: use m-IgG<sub>κ</sub> BP-FITC: sc-516140 or m-IgG<sub>κ</sub> BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG<sub>κ</sub> BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## SELECT PRODUCT CITATIONS

- Sabin Melo, K.C., Correia, M.H., Svidzinski, T.I.E. and Hernandes, L. 2018. Exocellular extract of *Fusarium oxysporum*, fungus free, is able to permeate and act selectively in skin. *APMIS* 126: 418-427.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.