**BACKGROUND**

Laminin-5 is a glycoprotein complex of three subunits (laminin-α3, β3, and γ2) 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**


**CHROMOSOMAL LOCATION**

Genetic locus: LAMA5 (human) mapping to 20q13.33.

**SOURCE**

Laminin-5 (P3H9-2) is a mouse monoclonal antibody raised against keratinocytes expressing Laminin-5 α3 chain of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Laminin-5 (P3H9-2) is available conjugated to agarose (sc-13586 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13585 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-13586 PE), fluorescein (sc-13586 FITC), Alexa Fluor® 488 (sc-13586 AF488), Alexa Fluor® 546 (sc-13586 AF546), Alexa Fluor® 594 (sc-13586 AF594) or Alexa Fluor® 647 (sc-13586 AF647), 200 µg/ml, for WB (RGB), IF, IHQ and FCM; and to either Alexa Fluor® 680 (sc-13586 AF680) or Alexa Fluor® 790 (sc-13586 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Laminin-5 (P3H9-2) is recommended for detection of Laminin-5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Laminin-5: 170 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

**RECOMMENDED SUPPORT REAGENTS**

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

1. Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

Western blot analysis of Laminin-5 expression in A-431 conditioned media, immunoprecipitated with Laminin-5 (P3H9-2): sc-13586 (A) and Laminin-5 (P3E4): sc-13587 (B) and detected with Laminin-γ2 (B-2) sc-25341.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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