Laminin-5 (P3E4): sc-13587

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.

CHROMOSOMAL LOCATION

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

SOURCE

Laminin-5 (P3E4) is a mouse monoclonal antibody raised against keratinocytes expressing Laminin-5 of human origin.

PRODUCT

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

Laminin-5 (P3E4) is available conjugated to agarose (sc-13587 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13587 HRP), 200 µg/ml, for WB, IF, ELISA; to either phycoerythrin (sc-13587 PE), fluorescein (sc-13587 FITC), Alexa Fluor® 488 (sc-13587 AF488), Alexa Fluor® 546 (sc-13587 AF546), Alexa Fluor® 594 (sc-13587 AF594) or Alexa Fluor® 647 (sc-13587 AF647), 200 µg/ml, for WB (RGB), IF, HRP and FCM; and to either Alexa Fluor® 680 (sc-13587 AF680) or Alexa Fluor® 790 (sc-13587 AF790), 200 µg/ml, for Near-Infrared (NIR) IF, WB, IF and FCM.

APPLICATIONS

Laminin-5 (P3E4) 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 1:500-1:500).

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-561602 or m-IgG® BP-HRP (Cruz Marker): sc-561602-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent; sc-561214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarse/2.0 ml). 3) Immunofluorescence: use m-IgG® BP-FITC: sc-561814 or m-IgG® BP-PE: sc-561814 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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.

DATA

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

SELECT PRODUCT CITATIONS


PROTOCOLS

See our website at www.scbt.com for detailed protocols and support products.

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