

# Laminin $\beta$ -2 (22): sc-135967

## BACKGROUND

The laminins comprise a growing family of disulfide-linked heterotrimers consisting of three genetically distinct polypeptide chains, designated  $\alpha$ ,  $\beta$  and  $\gamma$ . A major component of the basal lamina, laminins play a crucial role in providing a scaffolding upon which tissues are assembled and which serves as a physical barrier separating specialized tissues. During embryogenesis and early development, cells migrate along basement membranes, which are required for the polarization of cells. The  $\beta$ -2 Laminin chain plays a role in melanoma spread, promoting tumor migration along the abluminal surface of a vessel, a phenomenon which has been termed extra-vascular migratory metastasis.

## REFERENCES

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8. Vogel, W., Kanz, L., Brugger, W., Berndt, A. and Kosmehl, H. 1999. Expression of Laminin  $\beta$ -2 chain in normal human bone marrow. *Blood* 94: 1143-1145.
9. Libby, R.T., Lavallee, C.R., Balkema, G.W., Brunken, W.J. and Hunter, D.D. 1999. Disruption of Laminin  $\beta$ -2 chain production causes alterations in morphology and function in the CNS. *J. Neurosci.* 19: 9399-9411.

## CHROMOSOMAL LOCATION

Genetic locus: LAMB2 (human) mapping to 3p21.31; Lamb2 (mouse) mapping to 9 F2.

## SOURCE

Laminin  $\beta$ -2 (22) is a mouse monoclonal antibody raised against amino acids 506-691 of Laminin  $\beta$ -2 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 50  $\mu$ g IgG<sub>1</sub> in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

## APPLICATIONS

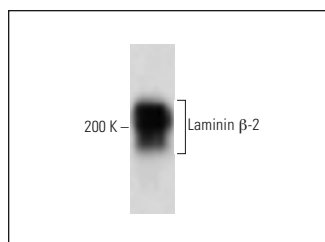
Laminin  $\beta$ -2 (22) is recommended for detection of Laminin  $\beta$ -2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Laminin  $\beta$ -2 siRNA (h): sc-35784, Laminin  $\beta$ -2 siRNA (m): sc-35785, Laminin  $\beta$ -2 shRNA Plasmid (h): sc-35784-SH, Laminin  $\beta$ -2 shRNA Plasmid (m): sc-35785-SH, Laminin  $\beta$ -2 shRNA (h) Lentiviral Particles: sc-35784-V and Laminin  $\beta$ -2 shRNA (m) Lentiviral Particles: sc-35785-V.

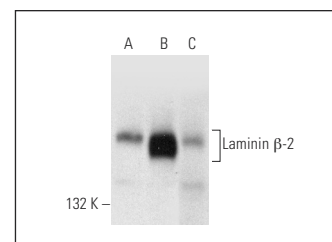
Molecular Weight of Laminin  $\beta$ -2: 200 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HT-1080 whole cell lysate: sc-364183 or DU 145 cell lysate: sc-2268.

## DATA



Laminin  $\beta$ -2 (22): sc-135967. Western blot analysis of Laminin  $\beta$ -2 expression in Hep G2 whole cell lysate.



Laminin  $\beta$ -2 (22): sc-135967. Western blot analysis of Laminin  $\beta$ -2 expression in LNCaP (A), HT-1080 (B) and DU 145 (C) whole cell lysates.

## SELECT PRODUCT CITATIONS

1. You, H., Shang, W., Min, X., Weinreb, J., Li, Q., Leapman, M., Wang, L. and Tian, J. 2020. Sight and switch off: nerve density visualization for interventions targeting nerves in prostate cancer. *Sci. Adv.* 6: eaax6040.

## 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.