

# Laminin $\beta$ -2 (M-17): sc-23414

## 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 vessel, a phenomenon which has been termed extra-vascular migratory metastasis.

## REFERENCES

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4. Nomizu, M., Utani, A., Beck, K., Otaka, A., Roller, P.P. and Yamada, Y. 1996. Mechanism of laminin chain assembly into a triple-stranded coiled-coil structure. *Biochemistry* 35: 2885-2893.
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## CHROMOSOMAL LOCATION

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

## SOURCE

Laminin  $\beta$ -2 (M-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Laminin  $\beta$ -2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-23414 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

Laminin  $\beta$ -2 (M-17) is recommended for detection of Laminin  $\beta$ -2 of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Laminin  $\beta$ -2 (M-17) is also recommended for detection of Laminin  $\beta$ -2 in additional species, including equine and bovine.

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.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## PROTOCOLS

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


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Try **Laminin  $\beta$ -2 (C4): sc-59980** or **Laminin  $\beta$ -2 (H-1): sc-133241**, our highly recommended monoclonal alternatives to Laminin  $\beta$ -2 (M-17).