

# Laminin $\gamma$ -2 (E-1): sc-55457

## 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. At least eight Laminin isoforms have been described:  $\alpha$ -1,  $\alpha$ -2,  $\alpha$ -3,  $\beta$ -1,  $\beta$ -2,  $\beta$ -3,  $\gamma$ -1 and  $\gamma$ -2. Each isoform differs in the relative affinity with which it associates with individual Laminin receptors.

## REFERENCES

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5. Aumailley, M. and Krieg, T. 1996. Laminins: a family of diverse multifunctional molecules of basement membranes. *J. Invest. Dermatol.* 106: 209-214.
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## CHROMOSOMAL LOCATION

Genetic locus: LAMC2 (human) mapping to 1q25.3.

## SOURCE

Laminin  $\gamma$ -2 (E-1) is a mouse monoclonal antibody raised against amino acids 1011-1193 of Laminin  $\gamma$ -2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

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

## APPLICATIONS

Laminin  $\gamma$ -2 (E-1) is recommended for detection of Laminin  $\gamma$ -2 of human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Laminin  $\gamma$ -2 siRNA (h): sc-35782, Laminin  $\gamma$ -2 shRNA Plasmid (h): sc-35782-SH and Laminin  $\gamma$ -2 shRNA (h) Lentiviral Particles: sc-35782-V.

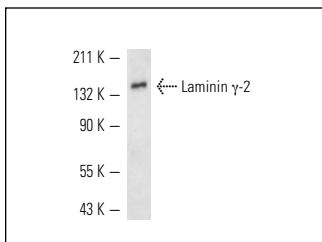
Molecular Weight of Laminin  $\gamma$ -2: 150 kDa.

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 $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  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



Laminin  $\gamma$ -2 (E-1): sc-55457. Western blot analysis of Laminin  $\gamma$ -2 expression in A-431 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Sprenger, A., et al. 2013. Consistency of the proteome in primary human keratinocytes with respect to gender, age, and skin localization. *Mol. Cell. Proteomics* 12: 2509-2521.

## RESEARCH USE

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

## PROTOCOLS

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