SANTA CRUZ BIOTECHNOLOGY, INC.

Laminin-R (H-141): sc-20979



BACKGROUND

Laminin receptor (Laminin-R) has a heterodimeric structure similar to that of receptors for other extracellular matrix proteins such as Fibronectin and Vitronectin. Incorporation of Laminin-R into lysosomal membranes makes it possible for lysosomes to attach to surfaces coated with Laminin. This and other properties identify Laminin-R as a member of the Integrin family of cell adhesion receptors. The Laminin-R precursor is a polypeptide whose expression is consistently upregulated in aggressive carcinoma. The precursor, which is also identified as p40 ribosome-associated protein, appears to be a multifunctional protein involved in the translational machinery. Laminin-R (also known as colon carcinoma laminin-binding protein) and is found at nine-fold higher levels in colon carcinoma than in adjacent normal colonic epithelium. Additionally, the level of the Laminin-R is higher in the lung cancer cell line than in the lung cell line.

CHROMOSOMAL LOCATION

Genetic locus: RPSA (human) mapping to 3p22.1; Rpsa (mouse) mapping to 9 F4.

SOURCE

Laminin-R (H-141) is a rabbit polyclonal antibody raised against amino acids 110-250 mapping within an internal region of Laminin-R of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Laminin-R (H-141) is recommended for detection of Laminin-R of mouse, rat and 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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-R (H-141) is also recommended for detection of Laminin-R in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Laminin-R siRNA (h): sc-35789, Laminin-R siRNA (m): sc-37262, Laminin-R shRNA Plasmid (h): sc-35789-SH, Laminin-R shRNA Plasmid (m): sc-37262-SH, Laminin-R shRNA (h) Lentiviral Particles: sc-35789-V and Laminin-R shRNA (m) Lentiviral Particles: sc-37262-V.

Molecular Weight of Laminin-R cytosolic precursor: 37 kDa.

Molecular Weight of mature Laminin-R: 67 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Laminin-R (h2): 293T Lysate: sc-116343 or Hep G2 cell lysate: sc-2227.

RESEARCH USE

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

STORAGE

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

DATA





Laminin-R (H-141): sc-20979. Western blot analysis of Laminin-R expression in non-transfected: sc-117752 (A) and human Laminin-R transfected: sc-116343 (B) 293T whole cell lysates.

Laminin-R (H-141): sc-20979. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic staining of glandular cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (**B**).

SELECT PRODUCT CITATIONS

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- Miragliotta, V., et al. 2009. Laminin receptor 1 is differentially expressed in thoracic and limb wounds in the horse. Vet. Dermatol. 20: 27-34.
- Dorchies, O.M., et al. 2009. Protection of dystrophic muscle cells with polyphenols from green tea correlates with improved glutathione balance and increased expression of 67LR, a receptor for (-)-epigallocatechin gallate. Biofactors 35: 279-294.
- Scheiman, J., et al. 2010. Multiple functions of the 37/67-kd laminin receptor make it a suitable target for novel cancer gene therapy. Mol. Ther. 18: 63-74.
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- Thongtan, T., et al. 2012. Characterization of putative Japanese encephalitis virus receptor molecules on microglial cells. J. Med. Virol. 84: 615-623.

MONOS Satisfation Guaranteed

Try Laminin-R (H-2): sc-74515 or Laminin-R (G-7): sc-74531, our highly recommended monoclonal alternatives to Laminin-R (H-141). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see Laminin-R (H-2): sc-74515.