SANTA CRUZ BIOTECHNOLOGY, INC.

PRELP (L-13): sc-160082



The Power to Question

BACKGROUND

PRELP (proline/arginine-rich end leucine-rich repeat protein), also known as prolargin, MST161, SLRR2A or MSTP161, is a 382 amino acid secreted protein that localizes to the extracellular matrix. Belonging to the Class II subfamily of the small leucine-rich proteoglycan (SLRP) family, PRELP contains twelve LRR (leucine-rich) repeats, which are motifs consisting of 20-29 residues that are present in numerous proteins with diverse functions and provide versatile structural framework for the formation of protein-protein interactions. Highly expressed in cartilage, basement membranes and developing bone, PRELP is considered a glycosaminoglycan (GAG)- and collagen-binding anchor protein that associates with the basement membrane heparan sulfate proteoglycan perlecan. PRELP acts as a linker between the extracellular matrix and the cell surface of proteoglycans and may be partially responsible for Hutchinson-Gilford progeria (HGP), an extremely rare genetic disorder that causes premature, rapid aging shortly after birth.

REFERENCES

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- 4. Bengtsson, E., et al. 2002. The leucine-rich repeat protein PRELP binds perlecan and collagens and may function as a basement membrane anchor. J. Biol. Chem. 277: 15061-15068.
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- 7. Malmsten, M., et al. 2006. Bacterial killing by heparin-binding peptides from PRELP and thrombospondin. Matrix Biol. 25: 294-300.
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CHROMOSOMAL LOCATION

Genetic locus: PRELP (human) mapping to 1q32.1; Prelp (mouse) mapping to 1 E4.

SOURCE

PRELP (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRELP of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-160082 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRELP (L-13) is recommended for detection of PRELP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

PRELP (L-13) is also recommended for detection of PRELP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PRELP siRNA (h): sc-78776, PRELP siRNA (m): sc-152459, PRELP shRNA Plasmid (h): sc-78776-SH, PRELP shRNA Plasmid (m): sc-152459-SH, PRELP shRNA (h) Lentiviral Particles: sc-78776-V and PRELP shRNA (m) Lentiviral Particles: sc-152459-V.

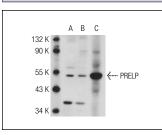
Molecular Weight of PRELP: 55 kDa.

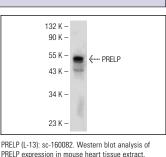
Positive Controls: A-431 whole cell lysate: sc-2201, rat heart extract: sc-2393 or HT-1080 whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA





PRELP (L-13): sc-160082. Western blot analysis of PRELP expression in HT-1080 (\mathbf{A}) and A-431 (\mathbf{B}) whole cell lysates and rat heart tissue extract (\mathbf{C}).

RESEARCH USE

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