SANTA CRUZ BIOTECHNOLOGY, INC.

PRELP (E-12): sc-160081



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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- Malmsten, M., et al. 2006. Bacterial killing by heparin-binding peptides from PRELP and thrombospondin. Matrix Biol. 25: 294-300.
- 8. Grover, J., et al. 2007. The consequence of PRELP overexpression on skin. Matrix Biol. 26: 140-143.
- 9. Rucci, N., et al. 2009. The glycosaminoglycan-binding domain of PRELP acts as a cell type-specific NF κ B inhibitor that impairs osteoclastogenesis. J. Cell Biol. 187: 669-683.

CHROMOSOMAL LOCATION

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

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

PRELP (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRELP 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.

Blocking peptide available for competition studies, sc-160081 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRELP (E-12) 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), 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 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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.