SANTA CRUZ BIOTECHNOLOGY, INC.

Paralemmin 2 (6B7): sc-100802

BACKGROUND

Paralemmin 2, also known as PALM2, is a member of the Paralemmin family of proteins, which also includes Palmdelphin and Paralemmin, also known as Paralemmin 1. Paralemmin 2 shares 26% amino acid identity with Palmdelphin and 37% amino acid identity with Paralemmin, a widely expressed peripheral membrane protein that is involved in cell structure and shape. Paralemmin 2 is an acidic 379 amino acid protein with a C-terminal CAAX motif and it is expressed in infantile muscle, infantile heart and human skin fibroblasts. PALM2, the gene encoding Paralemmin 2, is closely adjacent to and functionally linked to the AKAP2 gene. Through differential splicing and RNA read-through, four major protein products are produced by these two genes, namely Paralemmin 2, AKAP 2, AKAP-KL and PALM2-AKAP2. Paralemmin 2 is encoded by the first eight exons.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PALM2 (human) mapping to 9q31.3; Palm2 (mouse) mapping to 4 B3.

STORAGE

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

SOURCE

Paralemmin 2 (6B7) is a mouse monoclonal antibody raised against recombinant Paralemmin 2 of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} in 500 µl of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Paralemmin 2 (6B7) is recommended for detection of Paralemmin 2 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Paralemmin 2 siRNA (h): sc-92466, Paralemmin 2 siRNA (m): sc-155929, Paralemmin 2 shRNA Plasmid (h): sc-92466-SH, Paralemmin 2 shRNA Plasmid (m): sc-155929-SH, Paralemmin 2 shRNA (h) Lentiviral Particles: sc-92466-V and Paralemmin 2 shRNA (m) Lentiviral Particles: sc-155929-V.

Molecular Weight of Paralemmin 2: 35 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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).

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.