

Paralemmin 2 (S-16): sc-133352

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.

SOURCE

Paralemmin 2 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Paralemmin 2 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133352 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Paralemmin 2 (S-16) is recommended for detection of Paralemmin 2 isoforms 1 and 2 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); non cross-reactive with Paralemmin.

Paralemmin 2 (S-16) is also recommended for detection of Paralemmin 2 isoforms 1 and 2 in additional species, including equine and bovine.

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.

Positive Controls: HeLa nuclear extract: sc-2120.

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) 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.

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.