

Paralemmin (P-20): sc-55972

BACKGROUND

Paralemmin, also called Paralemmin 1 or PALM, is a widely expressed peripheral membrane protein that is involved in cell structure and shape. A hydrophobic protein, Paralemmin is anchored to the cytoplasmic side of the cell membrane via di-palmitoylation and prenylation of its C-terminal cysteine cluster. Functioning at the synapse to regulate neuronal plasticity and plasma membrane dynamics, Paralemmin can bind to the dopamine receptor D3, thereby reducing D3 expression and subsequent adenylate cyclase activity. Overexpression of Paralemmin induces fibroblasts to extend long filopodia and to assume extreme cell shapes, suggesting involvement in the formation and stabilization of the plasma membrane. Two isoforms of Paralemmin exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: PALM (human) mapping to 19p13.3; Palm (mouse) mapping to 10 C1.

SOURCE

Paralemmin (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Paralemmin of human origin.

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-55972 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Paralemmin (P-20) is recommended for detection of Paralemmin 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Paralemmin (P-20) is also recommended for detection of Paralemmin in additional species, including canine, bovine and porcine.

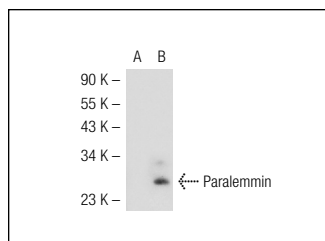
Suitable for use as control antibody for Paralemmin siRNA (h): sc-62753, Paralemmin siRNA (m): sc-62754, Paralemmin shRNA Plasmid (h): sc-62753-SH, Paralemmin shRNA Plasmid (m): sc-62754-SH, Paralemmin shRNA (h) Lentiviral Particles: sc-62753-V and Paralemmin shRNA (m) Lentiviral Particles: sc-62754-V.

Molecular Weight of Paralemmin: 40 kDa.

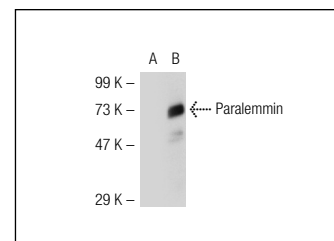
RECOMMENDED SECONDARY REAGENTS

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



Paralemmin (P-20): sc-55972. Western blot analysis of Paralemmin expression in non-transfected: sc-117752 (A) and human Paralemmin transfected: sc-114894 (B) 293T whole cell lysates.



Paralemmin (P-20): sc-55972. Western blot analysis of Paralemmin expression in non-transfected: sc-117752 (A) and mouse Paralemmin transfected: sc-122377 (B) 293T whole cell lysates.

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.



Try **Paralemmin (D-5): sc-365869**, our highly recommended monoclonal alternative to Paralemmin (P-20).