

Peroxin 11 β (E-12): sc-160658

BACKGROUND

Peroxisomes are single-membrane bound organelles present in virtually all eukaryotic cells. They are involved in numerous catabolic and anabolic pathways, including β -oxidation of very long chain fatty acids, metabolism of hydrogen peroxide, plasmalogen biosynthesis and bile acid synthesis. The Peroxin gene family, which includes more than 20 members, is required for peroxisome biogenesis. Peroxin 11 β , also known as PEX11B (peroxisomal biogenesis factor 11 β), is a 259 amino acid single-pass membrane protein belonging to the Peroxin-11 family. Involved in peroxisomal proliferation, Peroxin 11 β may participate in regulating peroxisomes division by recruiting the dynamin-related GTPase DRP1 to the peroxisomal membrane. Peroxin 11 β associates with Peroxin 19 and is encoded by a gene mapping to human chromosome 1q21.1

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PEX11B (human) mapping to 1q21.1; Pex11b (mouse) mapping to 3 F2.1.

SOURCE

Peroxin 11 β (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Peroxin 11 β of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160658 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Peroxin 11 β (E-12) is recommended for detection of Peroxin 11 β 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 Peroxin 11 α or Peroxin 11 γ .

Suitable for use as control antibody for Peroxin 11 β siRNA (h): sc-78821, Peroxin 11 β siRNA (m): sc-155931, Peroxin 11 β shRNA Plasmid (h): sc-78821-SH, Peroxin 11 β shRNA Plasmid (m): sc-155931-SH, Peroxin 11 β shRNA (h) Lentiviral Particles: sc-78821-V and Peroxin 11 β shRNA (m) Lentiviral Particles: sc-155931-V.

Molecular Weight of Peroxin 11 β : 28 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) 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.

STORAGE

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

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.