SANTA CRUZ BIOTECHNOLOGY, INC.

Peroxin 11α (G-13): sc-104601

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Peroxisomes are single-membrane bounds 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 11α(peroxisomal biogenesis factor 11 α), also known as peroxisomal membrane protein 11A, PEX11A, PEX11-α, MGC119947, MGC138534, Pex11pα, HsPEX11p or PMP28, is a 247 amino acid multi-pass membrane protein that localilzes to the peroxisome membrane and belongs to the Peroxin11 family.Peroxin 11α is known to promote peroxisome proliferation, mediate peroxisome division and regulate coatomer protein binding to the peroxisomal membrane. Peroxin 11α is highly expressed in kidney and the gene encoding Peroxin 11α maps to human chromosome 15q26.1.

CHROMOSOMAL LOCATION

Genetic locus: PEX11A (human) mapping to 15q26.1; Pex11a (mouse) mapping to 7 D3.

SOURCE

Peroxin 11α (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of Peroxin 11α of mouse 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-104601 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Peroxin 11α (G-13) is recommended for detection of Peroxin 11α 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).

Peroxin 11α (G-13) is also recommended for detection of Peroxin 11α in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Peroxin 11α siRNA (h): sc-89978, Peroxin 11α siRNA (m): sc-106398, Peroxin 11α shRNA Plasmid (h): sc-89978-SH, Peroxin 11α shRNA Plasmid (m): sc-106398-SH, Peroxin 11α shRNA (h) Lentiviral Particles: sc-89978-V and Peroxin 11α shRNA (m) Lentiviral Particles: sc-106398-V.

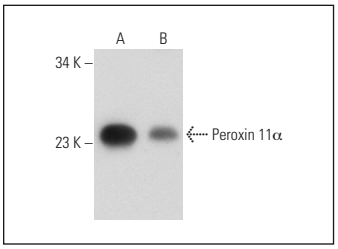
Molecular Weight of Peroxin 11α: 28 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214 or NTERA-2 cl.D1 whole cell lysate: sc-364181.

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



Peroxin 11α (G-13): sc-104601. Western blot analysis of Peroxin 11α expression in KNRK (**A**) and NTERA-2 cl.D1 (**B**) whole cell lysates.

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.