Peroxin 6 (H-300): sc-50479



The Power to Questio

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. One such member of the Peroxin gene family is Peroxin 6. Of 11 mutations identified in the gene PEX6, most lead to premature termination or large deletions of the Peroxin 6 protein and result in the most severe peroxisome biogenesis disorder phenotype of Zellweger syndrome, a disorder associated with major deformations.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PEX6 (human) mapping to 6p21.1; Pex6 (mouse) mapping to 17 C.

SOURCE

Peroxin 6 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Peroxin 6 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Peroxin 6 (H-300) is recommended for detection of Peroxin 6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 6 (H-300) is also recommended for detection of Peroxin 6 in additional species, including canine and bovine.

Suitable for use as control antibody for Peroxin 6 siRNA (h): sc-62775, Peroxin 6 siRNA (m): sc-62776, Peroxin 6 shRNA Plasmid (h): sc-62775-SH, Peroxin 6 shRNA Plasmid (m): sc-62776-SH, Peroxin 6 shRNA (h) Lentiviral Particles: sc-62775-V and Peroxin 6 shRNA (m) Lentiviral Particles: sc-62776-V.

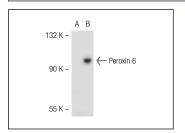
Molecular Weight of Peroxin 6: 116 kDa.

Positive Controls: Peroxin 6 (h): 293T Lysate: sc-115993, Jurkat whole cell lysate: sc-2204 or NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Peroxin 6 (H-300): sc-50479. Western blot analysis of Peroxin 6 expression in non-transfected: sc-117752 (A) and human Peroxin 6 transfected: sc-115993 (B) 293T 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.