

Peroxin 19 (32): sc-136029

BACKGROUND

The covalent attachment of prenyl lipids, such as farnesyl or geranylgeranyl groups, by specific transferases is indispensable for the cellular sorting of many proteins. A farnesylated protein, Peroxin 19 (peroxisomal farnesylated protein, PxF or HK33), localizes to the outer surface of peroxisomes. Specifically, Peroxin 19 localizes to the cytoplasmic surface of peroxisomes in liver cells. Peroxin 19 is the human homolog of Pex19p, an oleic acid-inducible, farnesylated protein that is essential for peroxisome biogenesis in *Saccharomyces cerevisiae*. The carboxy-terminal part of Peroxin 19, including the CAAX homology box, is required for its biologic function. Moreover, Peroxin 19 is apparently involved in the initial stage of peroxisome membrane assembly, before the import of matrix protein. The gene which encodes Peroxin 19 is a housekeeping gene and maps to human chromosome 1q22. This is the causative gene for complementation group J peroxisome biogenesis disorder.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PEX19 (human) mapping to 1q23.2.

SOURCE

Peroxin 19 (32) is a mouse monoclonal antibody raised against amino acids 136-254 of Peroxin 19 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 50 µg IgG₁ in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

APPLICATIONS

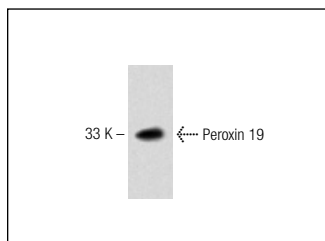
Peroxin 19 (32) is recommended for detection of Peroxin 19 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Peroxin 19 siRNA (h): sc-44925, Peroxin 19 shRNA Plasmid (h): sc-44925-SH and Peroxin 19 shRNA (h) Lentiviral Particles: sc-44925-V.

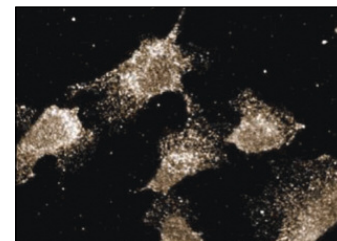
Molecular Weight of Peroxin 19: 33 kDa.

Positive Controls: SW-13 cell lysate: sc-24778 or human endothelial cells.

DATA



Peroxin 19 (32): sc-136029. Western blot analysis of Peroxin 19 expression in SW-13 whole cell lysate.



Peroxin 19 (32): sc-136029. Immunofluorescence staining of human endothelial cells showing cytoplasmic localization.

RESEARCH USE

For research use only, not for use in diagnostic procedures. Not for resale.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.