

# Peroxin 16 (S-12): sc-131056

## BACKGROUND

Peroxisomes are single-membrane bound organelles present in virtually all eukaryotic cells. They are involved in numerous catabolic and anabolic pathways, including  $\beta$ -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 16, also known as Pex16 or Peroxisomal biogenesis factor 16, is a 336 amino acid multi-membrane protein that has a critical role in the biogenesis of peroxisomes. Defects in the gene encoding Peroxin 16 are the cause of multiple peroxisome-related disorders, including Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), classical rhizomelic chondrodysplasia punctata (RCDP) and peroxisome biogenesis disorder complementation group 9 (PBD-CG9).

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PEX16 (human) mapping to 11p11.2; Pex16 (mouse) mapping to 2 E1.

## RESEARCH USE

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

## SOURCE

Peroxin 16 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Peroxin 16 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-131056 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Peroxin 16 (S-12) is recommended for detection of Peroxin 16 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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); non cross-reactive with other Peroxin family members.

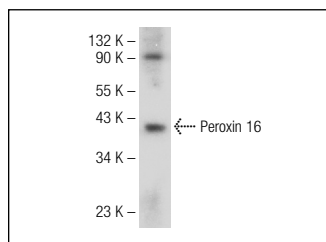
Peroxin 16 (S-12) is also recommended for detection of Peroxin 16 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Peroxin 16 siRNA (h): sc-96993, Peroxin 16 siRNA (m): sc-152173, Peroxin 16 shRNA Plasmid (h): sc-96993-SH, Peroxin 16 shRNA Plasmid (m): sc-152173-SH, Peroxin 16 shRNA (h) Lentiviral Particles: sc-96993-V and Peroxin 16 shRNA (m) Lentiviral Particles: sc-152173-V.

Molecular Weight of Peroxin 16: 42 kDa.

Positive Controls: mouse skin extract: sc-364251.

## DATA



Peroxin 16 (S-12): sc-131056. Western blot analysis of Peroxin 16 expression in mouse skin tissue extract.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.