# Peroxin 13 (N-20): sc-23194



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  $\beta$ -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. Two members of this family, Peroxin 5 (Pex5) and Peroxin 7 (Pex7), are receptors for proteins that contain the peroxisome targeting signal 1 (PTS1) and 2 (PTS2), respectively, and shuttle these proteins from the cytosol to the peroxisome. Peroxin 5, also designated PTS1 receptor, is expressed as two isoforms, Pex5L and Pex5S. Pex5L transports PTS1 and Pex7-PTS2 cargo complexes to the initial Pex5 docking site, Pex14, while Pex5S transports only PTS1 cargoes. Pex5 and Pex7 also require either direct or indirect interaction with Peroxin 13 (Pex13) for proper import into peroxisomes. Pex13 encodes an SH3-containing peroxisomal membrane protein that binds to sequences lacking a PXXP motif, which includes Pex5. Pex13 has high expression in liver and testis. Pex13 dysfunction is also implicated in some peroxisome biogenesis disorders.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: PEX13 (human) mapping to 2p16.1; Pex13 (mouse) mapping to 11 A3.2.

#### SOURCE

Peroxin 13 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Peroxin 13 of human origin.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-23194 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Peroxin 13 (N-20) is recommended for detection of Peroxin 13 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).

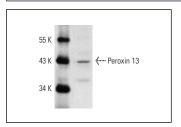
Peroxin 13 (N-20) is also recommended for detection of Peroxin 13 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Peroxin 13 siRNA (h): sc-40825, Peroxin 13 siRNA (m): sc-40826, Peroxin 13 shRNA Plasmid (h): sc-40825-SH, Peroxin 13 shRNA Plasmid (m): sc-40826-SH, Peroxin 13 shRNA (h) Lentiviral Particles: sc-40825-V and Peroxin 13 shRNA (m) Lentiviral Particles: sc-40826-V.

Molecular Weight of Peroxin 13: 45 kDa.

Positive Controls: H4 cell lysate: sc-2408.

## DATA



Peroxin 13 (N-20): sc-23194. Western blot analysis of Peroxin 13 expression in H4 whole cell lysate.

### **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.



Try **Peroxin 13 (D-5): sc-271477**, our highly recommended monoclonal alternative to Peroxin 13 (N-20).