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Peroxin 13 (m): 293T Lysate: sc-125808

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. 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

1. Bjorkman, J., et al. 1998. Genomic structure of Pex13, a candidate peroxisome biogenesis disorder gene. *Genomics* 54: 521-528.
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3. Gartner, J. 2000. Organelle disease: peroxisomal disorders. *Eur. J. Pediatr.* 159: S236-S239.
4. Barnett, P., et al. 2000. The peroxisomal membrane protein Pex13p shows a novel mode of SH3 interaction. *EMBO J.* 19: 6382-6391.
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6. Fujiki, Y. 2000. Peroxisome biogenesis and peroxisome biogenesis disorders. *FEBS Lett.* 476: 42-46.
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CHROMOSOMAL LOCATION

Genetic locus: Pex13 (mouse) mapping to 11 A3.3.

PRODUCT

Peroxin 13 (m): 293T Lysate represents a lysate of mouse Peroxin 13 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Peroxin 13 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Peroxin 13 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

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