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Forschungsprodukte & Biochemikalien

Zellkultur & Verbrauchsmaterial

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Peroxin 6 (m): 293T Lysate: sc-122503

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BIOTECHNOLOGY
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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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7. Krazy, H. et al. 2006. Identification and characterization of three peroxins — PEX6, PEX10 and PEX12 — involved in glycosome biogenesis in *Trypanosoma brucei*. Biochim. Biophys. Acta 1763: 6-17.

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9. Furuki, S., et al. 2006. Mutations in the Peroxin Pex26p responsible for peroxisome biogenesis disorders of complementation group 8 impair its stability, peroxisomal localization, and interaction with the Pex1p x Pex6p complex. J. Biol. Chem. 281: 1317-1323.

CHROMOSOMAL LOCATION

Genetic locus: Pex6 (mouse) mapping to 17 C.

PRODUCT

Peroxin 6 (m): 293T Lysate represents a lysate of mouse Peroxin 6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Peroxin 6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Peroxin 6 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.

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.

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.