SANTA CRUZ BIOTECHNOLOGY, INC.

PTPρ (m): 293T Lysate: sc-179388

BACKGROUND

Protein tyrosine phosphatases, or PTPs, are type I transmembrane proteins, membrane associated proteins or proteins localized in nuclei. Examples of transmembrane PTPs are LAR, PTPα, PTPβ, PTPγ, PTPδ, PTPε, PTPζ, PTPκ, PTPμ and PTPρ. Transmembrane PTPs play diverse roles in a variety of cellular processes during development and in adult tissues. PTPρ, also known as PTPRT, RPTPT or RPTPρ, is a receptor-type PTP (RPTP) containing a transmembrane region, two intracellular tandem catalytic domains, an extracellular region with Ig-like and Fibronectin type III-like repeats and a MAM (meprin-A5 antigen-PTPμ) domain. RPTPs participate in neurite extension, signal transduction and cell adhesion. PTPρ is expressed at high levels in the central nervous system of both developing and adult tissues. It interacts with a variety of proteins that function at intercellular adheren junctions and it specifically binds and dephosphorylates E-cadherin.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ptprt (mouse) mapping to 2 H2.

PRODUCT

PTPρ (m): 293T Lysate represents a lysate of mouse PTPρ 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

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