



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PTP ρ (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, PTP α , PTP β , PTP γ , PTP δ , PTP ϵ , PTP ζ , PTP κ , PTP μ and PTP ρ . Transmembrane PTPs play diverse roles in a variety of cellular processes during development and in adult tissues. PTP ρ , also known as PTPRT, RPTPT or RPTP ρ , 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-PTP μ) domain. RPTPs participate in neurite extension, signal transduction and cell adhesion. PTP ρ 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

- McAndrew, P.E., Frosthalm, A., White, R.A., Rotter, A. and Burghes, A.H. 1998. Identification and characterization of RPTP ρ , a novel RPTP μ / κ -like receptor protein tyrosine phosphatase whose expression is restricted to the central nervous system. *Brain Res. Mol. Brain Res.* 56: 9-21.
- Johnson, K.G. and Holt, C.E. 2000. Expression of CRYP- α , LAR, PTP- δ , and PTP ρ in the developing *Xenopus* visual system. *Mech. Dev.* 92: 291-294.
- Besco, J.A., Frosthalm, A., Popesco, M.C., Burghes, A.H. and Rotter, A. 2001. Genomic organization and alternative splicing of the human and mouse RPTP ρ genes. *BMC Genomics* 2: 1.
- Johnson, K.G., McKinnell, I.W., Stoker, A.W. and Holt, C.E. 2001. Receptor protein tyrosine phosphatases regulate retinal ganglion cell axon outgrowth in the developing *Xenopus* visual system. *J. Neurobiol.* 49: 99-117.
- Besco, J., Popesco, M.C., Davuluri, R.V., Frosthalm, A. and Rotter, A. 2004. Genomic structure and alternative splicing of murine R2B receptor protein tyrosine phosphatases (PTP κ , μ , ρ and PCP-2). *BMC Genomics* 5: 14.
- Yan, H.X., Yang, W., Zhang, R., Chen, L., Tang, L., Zhai, B., Liu, S.Q., Cao, H.F., Man, X.B., Wu, H.P., Wu, M.C. and Wang, H.Y. 2006. Protein-tyrosine phosphatase PCP-2 inhibits β -catenin signaling and increases E-cadherin-dependent cell adhesion. *J. Biol. Chem.* 281: 15423-15433.
- Besco, J.A., Hooft van Huijsduijn, R., Frosthalm, A. and Rotter, A. 2006. Intracellular substrates of brain-enriched receptor protein tyrosine phosphatase ρ (RPTP ρ /PTPRT). *Brain Res.* 1116: 50-57.

CHROMOSOMAL LOCATION

Genetic locus: Ptp ρ (mouse) mapping to 2 H2.

PRODUCT

PTP ρ (m): 293T Lysate represents a lysate of mouse PTP ρ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

PTP ρ (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PTP ρ antibodies. Recommended use: 10-20 μ l 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.