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Product datasheet for AM32005PU-N

Ptprr Mouse Monoclonal Antibody [Clone ID: 6A6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6A6
Applications:	IHC, IP, WB
Recommended Dilution:	**Immunoprecipitation.** **Immunoblotting.** **Immunohistochemistry on Frozen Sections.**
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant PTP-SL-GST (NCBI accession number BN000437, expression vector pGEX-2T), expressed in E.coli.
Specificity:	This antibody is directed to the common part of these proteins (PTPBR7, PTP-SL and PTPPBSγ). Specificity has been tested in Immunoprecipitation, Immunohistochemistry and Immunoblotting. Crossreacts with the striatum enriched phosphatase (STEP) when using antibody in Immunoblotting (Figure 1). Additional tests for cross reactivity have not yet been performed.
Formulation:	10 mM Ammonium Bicarbonate buffer State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Dissolve in a 100 mM Tris-HCl pH8.0 buffer containing 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: One year from despatch.

View online »

Gene Name: protein tyrosine phosphatase, receptor type, R

Database Link: Entrez Gene 19279 Mouse
Q62132

Background: Protein tyrosine phosphatases (PTPs) are the enzymes that are instrumental in determining the spatial and temporal balance between the tyrosine phosphorylated and non-phosphorylated targets, and thus coordinately regulate these cellular responses to extracellular cues. The Ptprr gene gives rise to 4 different neuronal phosphatases which differ in length of their N-terminal part and subcellular localization. PTPBR7 (72 kDa) is receptor-like, PTP-SL (60 kDa) is membrane associated and PTPPBSy (42 and 37 kDa) is a cytosolic phoaphatase.

Synonyms: ECPTP, PTPRQ, R-PTP-R, PCPTP1, Ch-1PTPase, NC-PTPCOM1

Product images:

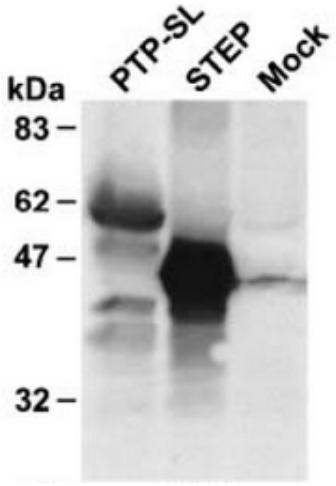

Figure 1: Neuro-2a cells were transiently transfected with PTP-SL or STEP expression plasmids, as indicated above the lanes. Mock transfected cells were included as negative controls. Lysates were directly subjected to Western blot analysis using monoclonal antibodies 6A6. In the PTP-SL Lane: at 60 kDa PTP-SL, at 42 and 37 kDa two PTPPBS? isoforms.

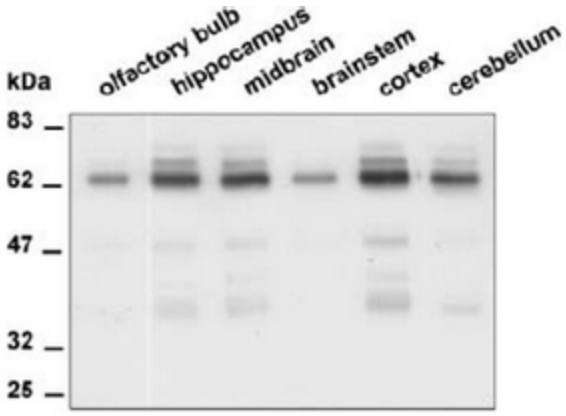

Figure 2: Monoclonal antibody 6A6 immunoprecipitates from different brain regions, visualized on blot using STEP absorbed a-SL that is immunoreactive towards all PTPRR proteins.

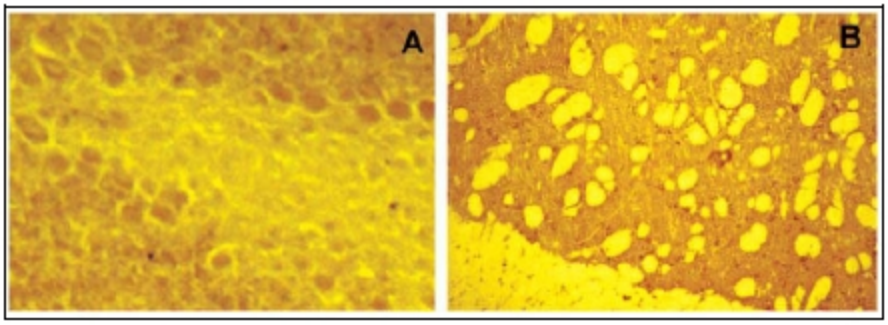

Figure 3: Immunolocalization of PTPRR protein in Mouse brain. Brain cryosections were stained using a mixture of three different monoclonal antibodies (1E3, 3E11 and 6A6) immunoreactive towards the common part in PTPRR isoforms and that cross-react with STEP. Positive staining is observed in the Purkinje cells of the cerebellum (A), both the neurones and neuropil of the striatum (B). The staining of the striatum reflects STEP immunoreactivity.