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PTPRS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PTPRS.
Catalog # AT3497a

Specification

PTPRS Antibody (monoclonal) (M01) - Product Information

Application	**WB**
Primary Accession	Q13332
Other Accession	BC029496
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b kappa**
Calculated MW	**217041**

PTPRS Antibody (monoclonal) (M01) - Additional Information

Gene ID 5802

Other Names
Receptor-type tyrosine-protein phosphatase S, R-PTP-S, Receptor-type tyrosine-protein phosphatase sigma, R-PTP-sigma, PTPRS

Target/Specificity
PTPRS (AAH29496, 31 a.a. ~ 128 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
PTPRS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPRS Antibody (monoclonal) (M01) - Protocols

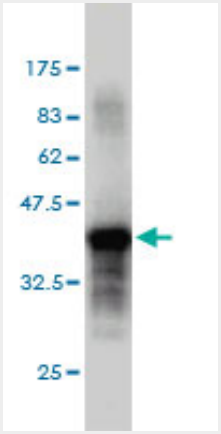
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

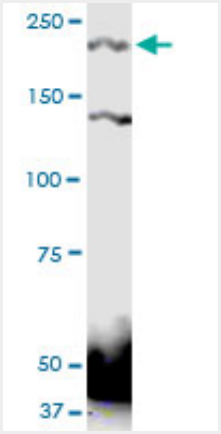
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTPRS Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



PTPRS monoclonal antibody (M01), clone 1H6 Western Blot analysis of PTPRS expression in HeLa ((Cat # AT3497a)

PTPRS Antibody (monoclonal) (M01) - Background

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.

PTPRS Antibody (monoclonal) (M01) - References

A new role for RPTPsigma in spinal cord injury: signaling chondroitin sulfate proteoglycan inhibition. Duan Y, et al. Sci Signal, 2010 Feb 23. PMID 20179269.Trans-synaptic adhesions between netrin-G ligand-3 (NGL-3) and receptor tyrosine phosphatases LAR, protein-tyrosine phosphatase delta (PTPdelta), and PTPsigma via specific domains regulate excitatory synapse formation. Kwon SK, et al. J Biol Chem, 2010 Apr 30. PMID 20139422.Frameshift mutations in coding repeats of protein tyrosine phosphatase genes in colorectal tumors with microsatellite instability. Korff S, et al. BMC Cancer, 2008 Nov 10. PMID 19000305.Genetic variation in receptor protein tyrosine phosphatase sigma is associated with type 2 diabetes in Swedish Caucasians. L?ngberg EC, et al. Eur J Endocrinol, 2007 Oct. PMID 17893260.Protein-tyrosine phosphatase sigma is associated with ulcerative colitis. Muise AM, et al. Curr Biol, 2007 Jul 17. PMID 17614280.