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PTPRJ Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PTPRJ.
Catalog # AT3496a

Specification

PTPRJ Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q12913
Other Accession	NM_002843
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**145941**

PTPRJ Antibody (monoclonal) (M01) - Additional Information

Gene ID 5795

Other Names
Receptor-type tyrosine-protein phosphatase eta, Protein-tyrosine phosphatase eta, R-PTP-eta, Density-enhanced phosphatase 1, DEP-1, HPTP eta, Protein-tyrosine phosphatase receptor type J, R-PTP-J, CD148, PTPRJ, DEP1

Target/Specificity
PTPRJ (NP_002834.2, 38 a.a. ~ 137 a.a) partial 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
PTPRJ Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPRJ Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides

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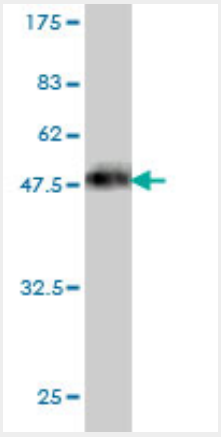
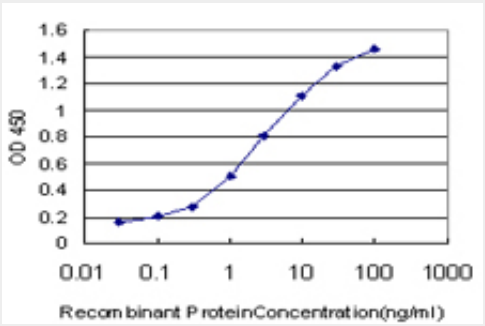
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTPRJ Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Detection limit for recombinant GST tagged PTPRJ is approximately 0.03ng/ml as a capture antibody.

PTPRJ 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 possesses an extracellular region containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene.

PTPRJ Antibody (monoclonal) (M01) - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Phosphatome profiling

reveals PTPN2, PTPRJ and PTEN as potent negative regulators of PKB/Akt activation in Ras-mutated cancer cells. Omerovic J, et al. Biochem J, 2010 Jan 27. PMID 19922411. An unbiased screen identifies DEP-1 tumor suppressor as a phosphatase controlling EGFR endocytosis. Tarcic G, et al. Curr Biol, 2009 Nov 17. PMID 19836242. Missense polymorphisms of PTPRJ and PTPN13 genes affect susceptibility to a variety of human cancers. Mita Y, et al. J Cancer Res Clin Oncol, 2010 Feb. PMID 19672627. Tumor suppressor density-enhanced phosphatase-1 (DEP-1) inhibits the RAS pathway by direct dephosphorylation of ERK1/2 kinases. Sacco F, et al. J Biol Chem, 2009 Aug 14. PMID 19494114.