

PPP1R14A Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant PPP1R14A.****Catalog # AT3408a****Specification**

PPP1R14A Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O96A00
Other Accession	BC021089
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	16693

PPP1R14A Antibody (monoclonal) (M01) - Additional Information**Gene ID** 94274**Other Names**

Protein phosphatase 1 regulatory subunit 14A, 17 kDa PKC-potentiated inhibitory protein of PP1, Protein kinase C-potentiated inhibitor protein of 17 kDa, CPI-17, PPP1R14A, CPI17, PPP1INL

Target/Specificity

PPP1R14A (AAH21089, 1 a.a. ~ 147 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

PPP1R14A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

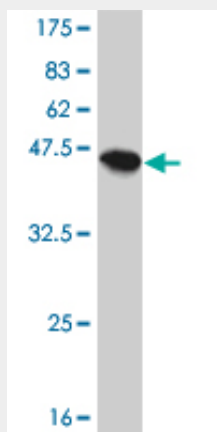
PPP1R14A Antibody (monoclonal) (M01) - Protocols

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

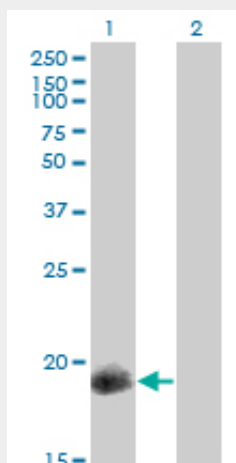
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP1R14A Antibody (monoclonal) (M01) - Images



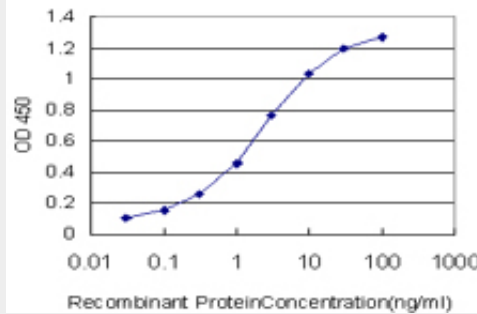
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (41.91 kDa) .



Western Blot analysis of PPP1R14A expression in transfected 293T cell line by PPP1R14A monoclonal antibody (M01), clone 3A7.

Lane 1: PPP1R14A transfected lysate (16.7 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PPP1R14A is approximately 0.1ng/ml as a capture antibody.

PPP1R14A Antibody (monoclonal) (M01) - Background

PPP1R14A is a phosphorylation-dependent inhibitor of smooth muscle myosin phosphatase (see MIM 603768). Inhibition leads to increased myosin phosphorylation and enhances smooth muscle contraction in the absence of increased intracellular Ca^{2+} concentration.

PPP1R14A Antibody (monoclonal) (M01) - References

Genome-wide association and replication studies identify four variants associated with prostate cancer susceptibility. Gudmundsson J, et al. Nat Genet, 2009 Oct. PMID 19767754. Functional inactivation of NF2/merlin in human mesothelioma. Thurneysen C, et al. Lung Cancer, 2009 May. PMID 18835652. CPI-17 silencing-reduced responsiveness in control and TNF-alpha-treated human bronchi. Morin C, et al. Am J Respir Cell Mol Biol, 2008 Dec. PMID 18757304. Protein microarray analysis identifies human cellular prion protein interactors. Satoh J, et al. Neuropathol Appl Neurobiol, 2009 Feb. PMID 18482256. Up-regulation of myometrial RHO effector proteins (PKN1 and DIAPH1) and CPI-17 (PPP1R14A) phosphorylation in human pregnancy is associated with increased GTP-RHOA in spontaneous preterm labor. Larrey J, et al. Biol Reprod, 2007 Jun. PMID 17301291.