

PRPS2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PRPS2.

Catalog # AT3444a

Specification

PRPS2 Antibody (monoclonal) (M02) - Product Information

Application	WB
Primary Accession	P11908
Other Accession	NM_002765
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	34769

PRPS2 Antibody (monoclonal) (M02) - Additional Information

Gene ID 5634

Other Names

Ribose-phosphate pyrophosphokinase 2, PPRibP, Phosphoribosyl pyrophosphate synthase II, PRS-II, PRPS2

Target/Specificity

PRPS2 (NP_002756, 160 a.a. ~ 269 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

PRPS2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

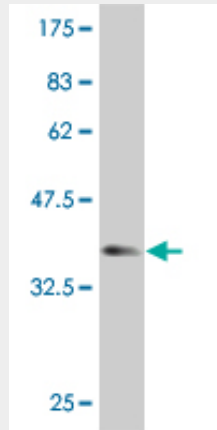
PRPS2 Antibody (monoclonal) (M02) - Protocols

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

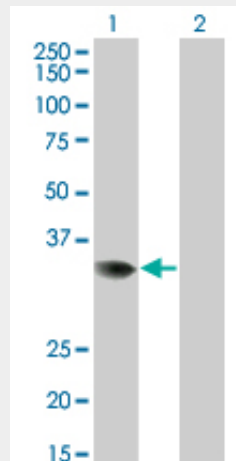
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

PRPS2 Antibody (monoclonal) (M02) - Images



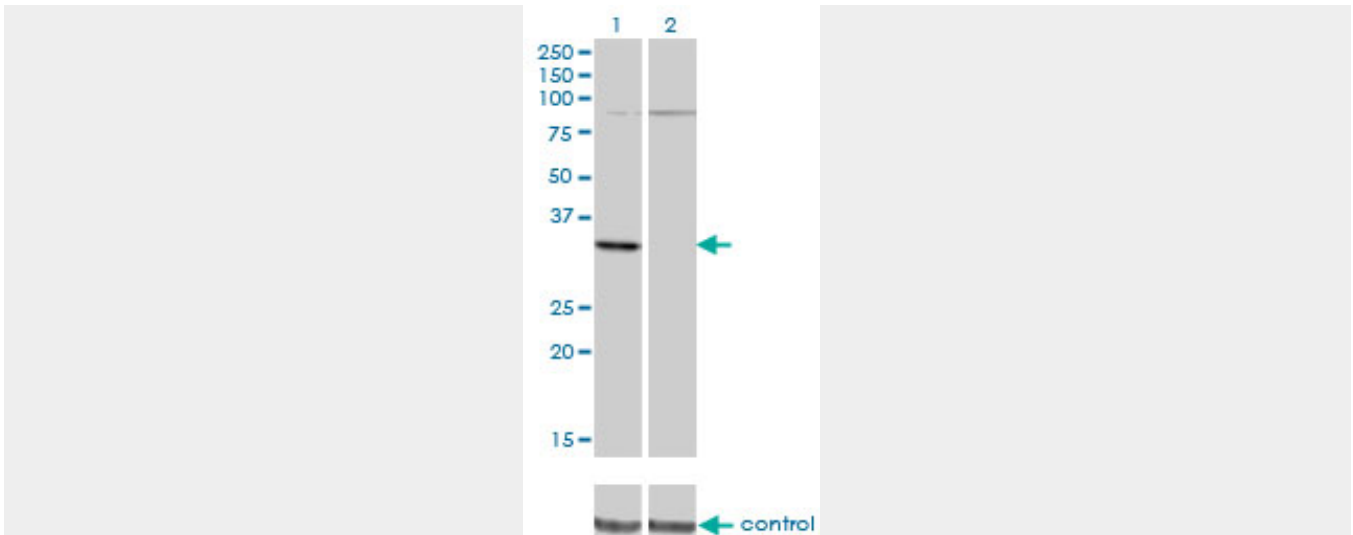
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



Western Blot analysis of PRPS2 expression in transfected 293T cell line by PRPS2 monoclonal antibody (M02), clone 4C1.

Lane 1: PRPS2 transfected lysate (34.8 KDa).

Lane 2: Non-transfected lysate.



Western blot analysis of PRPS2 over-expressed 293 cell line, cotransfected with PRPS2 Validated Chimera RNAi (Cat # AT3444a)

PRPS2 Antibody (monoclonal) (M02) - Background

This gene encodes a phosphoribosyl pyrophosphate synthetase that plays a central role in the synthesis of purines and pyrimidines. The encoded protein catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. Alternate splicing results in multiple transcript variants.

PRPS2 Antibody (monoclonal) (M02) - References

Direct role of nucleotide metabolism in C-MYC-dependent proliferation of melanoma cells. Mannava S, et al. *Cell Cycle*, 2008 Aug. PMID 18677108.[Increased activity of PRPP synthetase] Iizasa T. *Nippon Rinsho*, 2008 Apr. PMID 18409517.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. *Genome Res*, 2006 Jan. PMID 16344560.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. *Proc Natl Acad Sci U S A*, 2002 Dec 24. PMID 12477932.