

## PRPS2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PRPS2.

Catalog # AT3444a

### Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P11908</a>
<b>Other Accession</b>	<a href="#">NM_002765</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	4C1
<b>Calculated MW</b>	34769

### Additional Information

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<b>Gene ID</b>	5634
<b>Other Names</b>	Ribose-phosphate pyrophosphokinase 2, PPRibP, Phosphoribosyl pyrophosphate synthase II, PRS-II, PRPS2
<b>Target/Specificity</b>	PRPS2 (NP_002756, 160 a.a. ~ 269 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	PRPS2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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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.

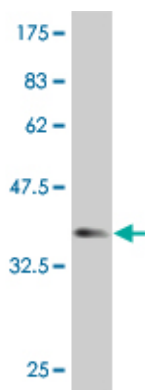
### References

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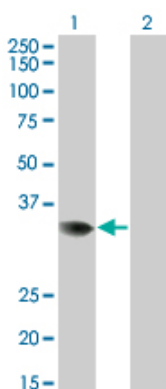
Direct role of nucleotide metabolism in C-MYC-dependent proliferation of melanoma cells. Mannava S, et al. Cell Cycle, 2008 Aug. PMID 18677108.[Increased activity of PRPP synthetase] Iizasa T. Nippon Rinsho, 2008 Apr. PMID 18409517.Diversification of transcriptional modulation: large-scale identification 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.

## Images

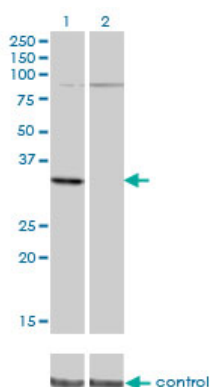


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



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 )

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.