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# PRPS2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PRPS2.
Catalog # AT3444a

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P11908 |
| **Other Accession** | NM_002765 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG2a Kappa |
| **Clone Names** | 4C1 |
| **Calculated MW** | 34769 |

## Additional Information

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|---|---|
| **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. |

## Background

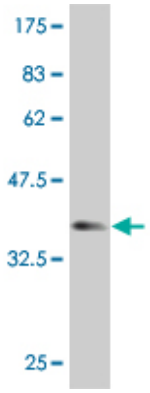
This gene encodes a phosphoribosyl pyrophosphate synthetase that plays a central role in the synthesis of purines and pyrimidines. The encoded protein catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. Alternate splicing results in multiple transcript variants.

## References

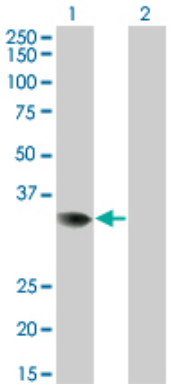
Direct role of nucleotide metabolism in C-MYC-dependent proliferation of melanoma cells. Mannava S, et al. Cell Cycle, 2008 Aug. PMID 18677108.[Increased activity of PRPP synthetase] Iizasa T. Nippon Rinsho, 2008 Apr. PMID 18409517.Diversification of transcriptional modulation: large-scale identification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

## Images

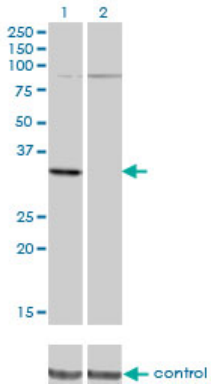



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .




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'.