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PRPS1/PRPS2/PRPS3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7061A

Specification

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P60891
Other Accession	Q7ZXC9, P09330, Q9CS42, Q4R4R7, P11908, P60892, Q9D7G0, Q4R4U3, Q2HJ58
Reactivity	**Human, Mouse**
Predicted	**Bovine, Monkey, Rat, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**79-109**

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Additional Information

Gene ID 5631

Other Names
Ribose-phosphate pyrophosphokinase 1, PPRibP, Phosphoribosyl pyrophosphate synthase I, PRS-I, PRPS1

Target/Specificity
This PRPS1/PRPS2/PRPS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-109 amino acids from the N-terminal region of human PRPS1/PRPS2/PRPS3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PRPS1/PRPS2/PRPS3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Protein Information

Name PRPS1 (HGNC:9462)

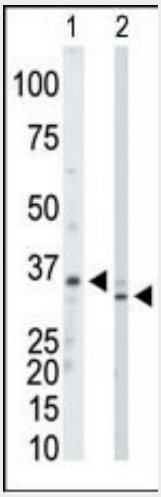
Function Catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP) that is essential for nucleotide synthesis.

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Protocols

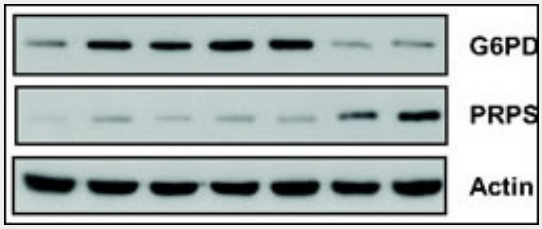
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Images



The anti-PRPS1/2/3 Pab (Cat. #AP7061a) is used in Western blot to detect PRPS1/2/3 in mouse kidney tissue lysate (Lane 1) and Hela cell lysate (Lane 2).



Role of PPP during MSC transformation. (A) G6PD activity decreased during MSC transformation (∗, P=0.0132; t test). Western blot confirms the down-regulation of G6PD and the up-regulation of PRPS at the late stages of transformation.

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Background

Phosphoribosylpyrophosphate synthetase (PRPS; EC 2.7.6.1) catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for the de novo and salvage pathways of purine, pyrimidine, and pyridine biosynthesis. By PCR of human lymphoblast mRNA using primers based on the cDNA sequence of rat PRS I (Prps1), Roessler et al. (1990)

isolated a partial human PRPS1 cDNA. They used this partial cDNA to screen lymphoblast cDNA libraries and isolated additional cDNAs corresponding to the entire PRPS1 coding region. The deduced PRPS1 protein has 318 amino acids.

PRPS1/PRPS2/PRPS3 Antibody (N-term) - References

Roessler, B. J., et al. Nucleic Acids Res. 18: 193 (1990).

PRPS1/PRPS2/PRPS3 Antibody (N-term) - Citations

- Transformation of human mesenchymal stem cells increases their dependency on oxidative phosphorylation for energy production.