

PRPS1/PRPS2/PRPS3 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP7061a**Specification**

PRPS1/PRPS2/PRPS3 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P60891](#)**PRPS1/PRPS2/PRPS3 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 5631

Other Names

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7061a](/product/products/AP7061a) was selected from the N-term region of human PRPS1/2/3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRPS1/PRPS2/PRPS3 Antibody (N-term) Blocking peptide - Protein InformationName PRPS1 ([HGNC:9462](#))**Function**

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

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

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

- [Blocking Peptides](#)

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

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

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