

## Product datasheet for **AM50064PU-N**

### PRPS1 Mouse Monoclonal Antibody [Clone ID: AT1E11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1E11
Applications:	ELISA, IF, WB
Recommended Dilution:	The antibody has been tested by <b>ELISA, Western blot</b> analysis and <b>Immunofluorescence / Immunocytochemistry</b> to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human PRPS1 (1-318aa) purified from E. coli
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphoribosyl pyrophosphate synthetase 1
Database Link:	<a href="#">Entrez Gene 5631 Human P60891</a>



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**Background:**

PRPS1 is an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. A mutation in PRPS1 may result in PRPS superactivity, a disease characterized by gout and the overproduction of purine nucleotides, uric acid and PRPP. PRPS1 mutations can also lead to a reduction in PRPS1 activity resulting in ARTS syndrome or CMTX5 (Charcot-Marie-Tooth disease X-linked recessive type 5).

**Synonyms:**

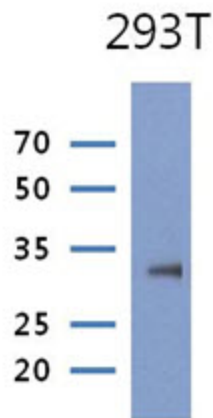
PRS-I, PPRibP

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Metabolic pathways, Pentose phosphate pathway, Purine metabolism

**Product images:**

The lysate of 293T (30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PRPS1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.