

## Mouse anti-Human PRPS1 Monoclonal Antibody | anti-PRPS1 antibody

PRPS1

|                              |                      |                            |                                                                                     |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA48349</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Immunocytochemistry, Western Blot, ELISA</b> |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

PRPS1; Monoclonal Antibody; Ribose-phosphate pyrophosphokinase 1; ARTS; CMTX5; PPRibP; PRSI; DFN2; DFNX1; Ribose-phosphate pyrophosphokinase 1 EC 2.7.6.1; KIAA0967; Phosphoribosyl pyrophosphate synthetase I; PRS I; PRS-I; Ribose phosphate pyrophosphokinase I; anti-PRPS1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                                       |
| Clonality                                       | Monoclonal                                                                                                                                                                  |
| Isotype                                         | IgG2a kappa                                                                                                                                                                 |
| Clone Number                                    | AT1E11                                                                                                                                                                      |
| Purity/Purification                             | By protein-A affinity chromatography                                                                                                                                        |
| Form/Format                                     | Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol                                                                                         |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                      |
| Sequence Length                                 | 318                                                                                                                                                                         |
| Applicable Applications for anti-PRPS1 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA                                                                                                |
| Antigen Species                                 | Human                                                                                                                                                                       |
| Immunogen                                       | Recombinant human PRPS1 (1-318aa) purified from E. coli                                                                                                                     |
| Conjugation                                     | Unconjugated                                                                                                                                                                |
| Note                                            | This product was produced from tissue culture supernatant.                                                                                                                  |
| Preparation and Storage                         | Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles. |

### IMAGES



#### WB (Western Blot)

The cell lysate (40ug) was 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. Lane 1.: 293T cell lysate



#### ICC (Immunocytochemistry)

ICC/IF analysis of PRPS1 in HeLa cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PRPS1 antibody | 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 overproductionof 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). |
| Product Categories/Family for anti-PRPS1 antibody   | Cancer; Epigenetics and Nuclear Signaling; Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                          | Ishizuka T, et al. (1992) Biochim Biophys Acta 241130(2): 139-48.; Kim HJ, et al. (2007) Arn J Hum Gernet 81(3):552-8.                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 4506127                                        |
| NCBI GeneID                      | 5631                                           |
| NCBI Accession #                 | NP_002755                                      |
| NCBI GenBank Nucleotide #        | NP_002755.1                                    |
| UniProt Accession #              | P60891                                         |
| NCBI Official Full Name          | ribose-phosphate pyrophosphokinase 1 isoform 1 |
| NCBI Official Synonym Full Names | phosphoribosyl pyrophosphate synthetase 1      |
| NCBI Official Symbol             | PRPS1                                          |
| NCBI Official Synonym Symbols    | ARTS; DFN2; PRSI; CMTX5; DFNX1; PRS-I; PPRibP  |
| NCBI Protein Information         | ribose-phosphate pyrophosphokinase 1           |
| UniProt Protein Name             | Ribose-phosphate pyrophosphokinase 1           |
| UniProt Gene Name                | PRPS1                                          |
| UniProt Synonym Gene Names       | PRS-I                                          |
| UniProt Entry Name               | PRPS1_HUMAN                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/prps1-antibody-clone-at1e11-immunofluorescence-immunocytochemistry-western-blot-elisa/48349>