

## Product datasheet for **CF504559**

### Phosphoribosyl pyrophosphate amidotransferase (PPAT) Mouse Monoclonal Antibody [Clone ID: OTI1B2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B2
Applications:	FC, WB
Recommended Dilution:	WB 1:500~2000, FLOW 1:100
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 42-278 of human PPAT(NP_002694) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57.2 kDa
Gene Name:	phosphoribosyl pyrophosphate amidotransferase
Database Link:	<a href="#">NP_002694</a> <a href="#">Entrez Gene 117544 Rat</a> <a href="#">Entrez Gene 231327 Mouse</a> <a href="#">Entrez Gene 694868 Monkey</a> <a href="#">Entrez Gene 5471 Human</a> <a href="#">Q06203</a>



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**Background:**

The protein encoded by this gene is a member of the purine/pyrimidine phosphoribosyltransferase family. It is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthetic pathway. This gene and PAICS/AIRC gene, a bifunctional enzyme catalyzing steps six and seven of this pathway, are located in close proximity on chromosome 4, and divergently transcribed from an intergenic region. [provided by RefSeq]. COMPLETENESS: complete on the 3' end.

**Synonyms:**

ATASE; GPAT; PRAT

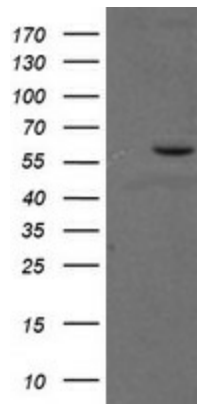
**Protein Families:**

Druggable Genome, Protease

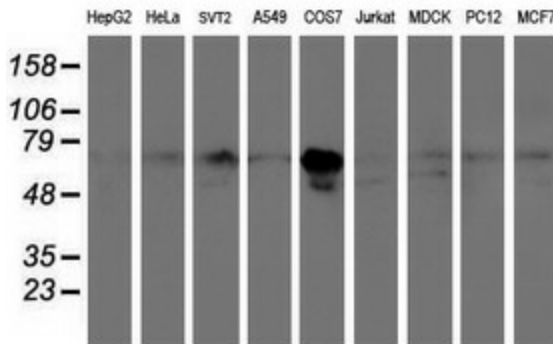
**Protein Pathways:**

Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

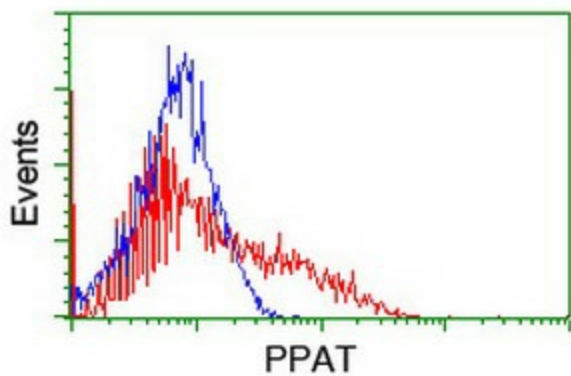
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PPAT ([RC201144], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPAT. Positive lysates [LY400951] (100ug) and [LC400951] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PPAT monoclonal antibody.



HEK293T cells transfected with either [RC201144] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PPAT antibody ([TA504559]), and then analyzed by flow cytometry.