

Rabbit anti-Human PPAT Polyclonal Antibody | anti-PPAT antibody

Anti-PPAT Antibody, Rabbit Polyclonal

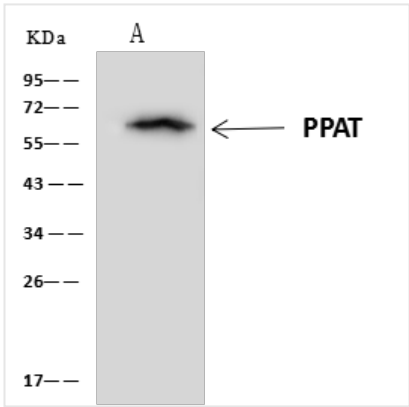
CATALOG # AAA256018	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

PPAT; Polyclonal Antibody; Anti-PPAT Antibody; Rabbit Polyclonal; PPAT Antibody; Rabbit PAb; Antigen Affinity Purified; phosphoribosyl pyrophosphate amidotransferase; Anti-ATASE Antibody; Anti-GPAT Antibody; Anti-PRAT Antibody; anti-PPAT antibody

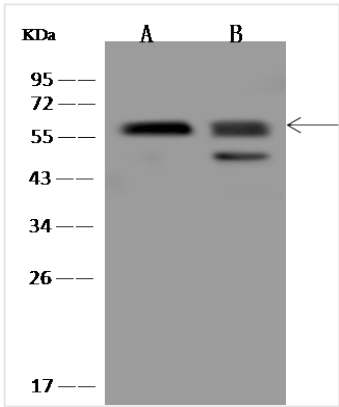
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PPAT
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PPAT antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E Coli-derived Human PPAT fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PPAT fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)

PPAT was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 4 uL anti-PPAT rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PPAT rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 62 kDa Observed band size :60 kDa



WB (Western Blot)

Anti-PPAT rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 62 kDa Observed band size: 57 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-PPAT antibody	Phosphopantetheine adenylyltransferase (PPAT) is a rate-limiting enzyme that catalyzes the conversion of ATP and pantetheine to dephosphocoenzyme and pyrophosphate. The enzyme is allosteric and regulated by Coenzyme A (CoA) through feedback inhibition. PPAT is an essential enzyme in Coenzyme A biosynthesis that catalyzes the rate-limiting step in coenzyme A (CoA) biosynthesis by transferring an adenylyl group from ATP to 4'-phosphopantetheine (Ppant), yielding 3'-dephospho-CoA (dPCoA). PPAT catalyzes the first committed step of de novo purine biosynthesis. Hence PPAT, the key regulatory spot in De novo purine nucleotide biosynthesis, is an attractive and credible drug target for leukemia and other cancer therapeutics. Because bacterial PPAT and mammalian PPAT are dissimilar, this enzyme is an attractive antibacterial target.
References	Zhao L, et al. (2003) Inhibitors of phosphopantetheine adenylyltransferase. Eur J Med Chem 38 (4): 345-349. Takahashi H, et al. (2004) Structure and implications for the thermal stability of phosphopantetheine adenylyltransferase from thermus thermophilus. Acta Crystallogr D Biol Crystallogr 60 (Pt 1): 97-104. Chatterjee R, et al. (2016) Transition of phosphopantetheine adenylyltransferase from catalytic to allosteric state is characterized by ternary complex formation in pseudomonas aeruginosa. Biochim Biophys Acta 1864 (7): 773-786. Bibi N, et al. (2019) In silico structure modeling and molecular docking analysis of phosphoribosyl pyrophosphate amidotransferase (ppat) with antifolate inhibitors. Curr Cancer Drug Targets 19 (5): 408-416.

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ppat-antibody-immunoprecipitation-western-blot-elisa/256018>