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Glutamine PRPP amidotransferase Rabbit pAb

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Catalog # AP58423

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q06203
Reactivity	Mouse, Rat
Predicted	Human, Chicken, Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57399
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Glutamine PRPP amidotransferase
Epitope Specificity	351-430/517
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	n the C-terminal section; belongs to the purine/pyrimidine phosphoribosyltransferase family. Contains 1 glutamine amidotransferase type-2 domain.
SUBUNIT	Homotetramer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Phosphoribosyl pyrophosphate amidotransferase (PPAT) is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthesis. The genes for PPAT and PAICS/AIRC, (a bifunctional enzyme catalyzing steps six and seven in the purine nucleotide biosynthesis pathway), are located in close proximity on chromosome 4.

Additional Information

Gene ID	5471
Other Names	Amidophosphoribosyltransferase, ATase, 2.4.2.14, Glutamine phosphoribosylpyrophosphate amidotransferase, GPAT, PPAT, GPAT {ECO:0000303|PubMed:8106516}
Target/Specificity	Ubiquitously expressed.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

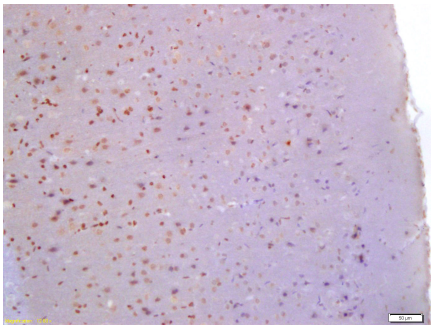
Protein Information

Name	PPAT
Synonyms	GPAT {ECO:0000303|PubMed:8106516}
Function	Catalyzes the formation of phosphoribosylamine from phosphoribosylpyrophosphate (PRPP) and glutamine.
Tissue Location	Ubiquitously expressed.

Background

Phosphoribosyl pyrophosphate amidotransferase (PPAT) is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthesis. The genes for PPAT and PAICS/AIRC, (a bifunctional enzyme catalyzing steps six and seven in the purine nucleotide biosynthesis pathway), are located in close proximity on chromosome 4.

Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Glutamine PRPP amidotransferase Polyclonal Antibody, Unconjugated(AP58423) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining