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PRPS2 Rabbit pAb

Catalog # AP98621

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P11908
Other Accession	P11908
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34769
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PRPS2
Epitope Specificity	101-200/318
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ribose-phosphate pyrophosphokinase family.
SUBUNIT	Homodimer. The active form is probably a hexamer composed of 3 homodimers (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a phosphoribosyl pyrophosphate synthetase that plays a central role in the synthesis of purines and pyrimidines. The encoded protein catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

Additional Information

Gene ID	5634
Other Names	PRSII; 2610101M19Rik; Prps-2; PRPS2_HUMAN; PRPS2; PPRibP; Phosphoribosyl pyrophosphate synthase II (PRS-II); 2.7.6.1; PRPS2_MOUSE; PRPS2_RAT; phosphoribosyl pyrophosphate synthetase 2; PRS II; ribose-phosphate diphosphokinase 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	PRPS2 {ECO:0000303|PubMed:1314091, ECO:0000312|HGNC:HGNC:9465}
Function	Catalyzes the transfer of the pyrophosphoryl group from ATP to the 1-hydroxyl of ribose-5-phosphate to form 5-phospho-ribosyl-1-pyrophosphate (PRPP), a key intermediate in the biosynthesis of several metabolites including nucleotides, dinucleotides and some amino acids (PubMed:37248548, PubMed:40295500, PubMed:8387514). Involved in the production of newly synthesized ATP/GTP through the purine biosynthesis pathway (PubMed:40295500).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.