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PRPS2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16421c

Product Information

Application	WB, E
Primary Accession	P11908
Other Accession	Q7ZXC9, P09330, Q9CS42, Q4R4R7, P60892, Q9D7G0, Q4R4U3, P60891, Q2HJ58, P38063, P38620, NP_001034180.1
Reactivity	Human
Predicted	Yeast, Bovine, Monkey, Mouse, Rat, Xenopus, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35852
Calculated MW	34769
Antigen Region	77-106

Additional Information

Gene ID	5634
Other Names	Ribose-phosphate pyrophosphokinase 2, PPRibP, Phosphoribosyl pyrophosphate synthase II, PRS-II, PRPS2
Target/Specificity	This PRPS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 77-106 amino acids from the Central region of human PRPS2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRPS2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

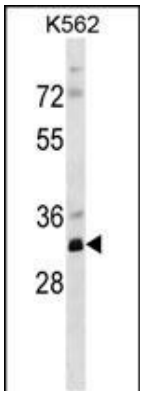
Background

PRPS2 is 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.

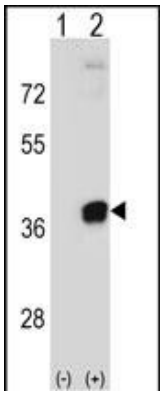
References

Mannava, S., et al. Cell Cycle 7(15):2392-2400(2008)
Tatibana, M., et al. Adv. Enzyme Regul. 35, 229-249 (1995) :
Dawson, S.J., et al. J. Infect. 24(3):317-320(1992)
Ishizuka, T., et al. Biochim. Biophys. Acta 1130(2):139-148(1992)
Becker, M.A., et al. Genomics 8(3):555-561(1990)

Images



PRPS2 Antibody (Center) (Cat. #AP16421c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PRPS2 antibody detected the PRPS2 protein (arrow).



Western blot analysis of PRPS2 (arrow) using rabbit polyclonal PRPS2 Antibody (Center) (Cat. #AP16421c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRPS2 gene.

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