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PGAM4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13349a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8N0Y7
Other Accession	P25113, Q9DBJ1, P18669, Q3SZ62, NP_001025062.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33526
Calculated MW	28777
Antigen Region	25-53

Additional Information

Gene ID	441531
Other Names	Probable phosphoglycerate mutase 4, PGAM4, PGAM3
Target/Specificity	This PGAM4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 25-53 amino acids from the N-terminal region of human PGAM4.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	PGAM4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PGAM4 (HGNC:21731)
Synonyms	PGAM3
Function	May catalyze the interconversion of 2-phosphoglycerate and 3-

phosphoglycerate, a crucial step in glycolysis, by using 2,3-bisphosphoglycerate. May also catalyze the interconversion of (2R)-2,3-bisphosphoglycerate and (2R)-3-phospho-glyceroyl phosphate.

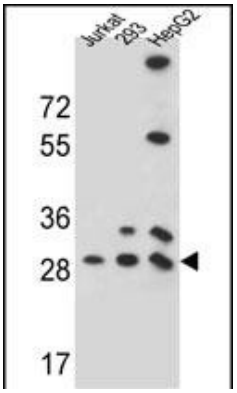
Background

This intronless gene appears to have arisen from a retrotransposition event, yet it is thought to be an expressed, protein-coding gene. The encoded protein is a member of the phosphoglycerate mutase family, a set of enzymes that catalyze the transfer of a phosphate group from 3-phosphoglycerate to 2-phosphoglycerate.

References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Kim, S.C., et al. Mol. Cell 23(4):607-618(2006)
Marques, A.C., et al. PLoS Biol. 3 (11), E357 (2005) :
Betran, E., et al. Mol. Biol. Evol. 19(5):654-663(2002)
Dierick, H.A., et al. Gene 198 (1-2), 37-41 (1997) :

Images



PGAM4 Antibody (N-term) (Cat. #AP13349a) western blot analysis in 293,HepG2,Jurkat cell line lysates (35ug/lane).This demonstrates the PGAM4 antibody detected the PGAM4 protein (arrow).



PGAM4 Antibody (N-term) (Cat. #AP13349a)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PGAM4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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