

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
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.

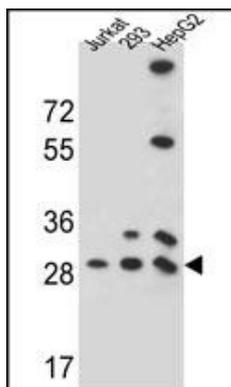
Background

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'.