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PGAM2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10504a

Product Information

Application	WB, IHC-P, E
Primary Accession	P15259
Other Accession	NP_000281.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25799
Calculated MW	28766
Antigen Region	12-41

Additional Information

Gene ID	5224
Other Names	Phosphoglycerate mutase 2, BPG-dependent PGAM 2, Muscle-specific phosphoglycerate mutase, Phosphoglycerate mutase isozyme M, PGAM-M, PGAM2, PGAMM
Target/Specificity	This PGAM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-41 amino acids from the N-terminal region of human PGAM2.
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	PGAM2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PGAM2 (HGNC:8889)
Synonyms	PGAMM

Function	Catalyzes the interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the interconversion of (2R)-2,3-bisphosphoglycerate and (2R)-3-phospho-glyceroyl phosphate, but with a reduced activity.
Tissue Location	Expressed in the heart and muscle. Not found in the liver and brain.

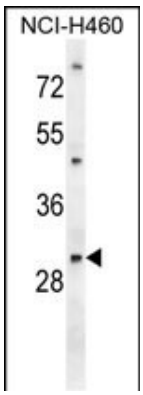
Background

Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). PGAM2 encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase eficiency, also known as glycogen storage disease X.

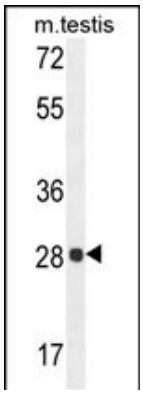
References

Hadjigeorgiou, G.M., et al. Neuromuscul. Disord. 9 (6-7), 399-402 (1999) :
Tsujino, S., et al. Am. J. Hum. Genet. 52(3):472-477(1993)
Castella-Escola, J., et al. Gene 91(2):225-232(1990)
Castella-Escola, J., et al. Hum. Genet. 84(2):210-212(1990)
Tsujino, S., et al. J. Biol. Chem. 264(26):15334-15337(1989)

Images

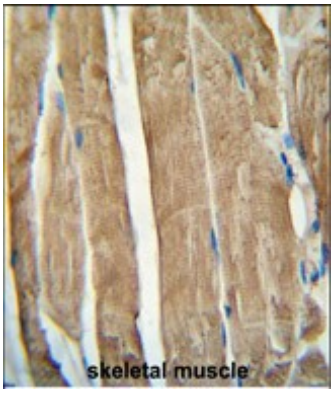


PGAM2 Antibody (N-term) (Cat. #AP10504a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PGAM2 antibody detected the PGAM2 protein (arrow).



PGAM2 Antibody (N-term) (Cat. #AP10504a) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the PGAM2 antibody detected the PGAM2 protein (arrow).

PGAM2 antibody (N-term) (Cat. #AP10504a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the



PGAM2 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'.