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PGAM2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10504a

Specification

PGAM2 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P15259
Other Accession	NP_000281.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28766**
Antigen Region	**12-41**

PGAM2 Antibody (N-term) - 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~~1:50~100

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.

PGAM2 Antibody (N-term) - Protein Information

Name PGAM2

Synonyms PGAMM

Function Interconversion of 3- and 2-phosphoglycerate with 2,3- bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase), but with a reduced activity.

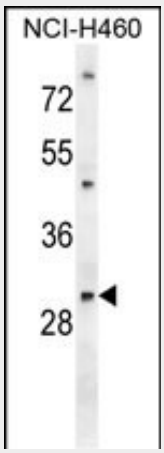
Tissue Location
Expressed in the heart and muscle. Not found in the liver and brain.

PGAM2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

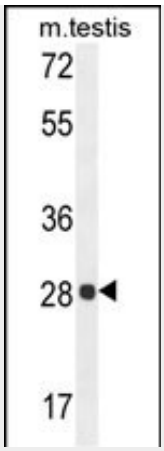
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PGAM2 Antibody (N-term) - Images

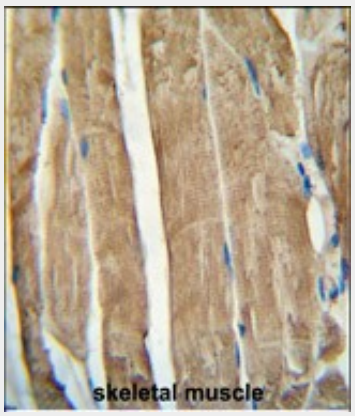


PGAM2 Antibody (N-term) (Cat. #AP10504a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PGAM2 antibody detected the PGAM2 protein (arrow).

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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.

PGAM2 Antibody (N-term) - 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.

PGAM2 Antibody (N-term) - 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)
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