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PYGM Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1450b

Specification

PYGM Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P11217
Other Accession	Q8HXW4
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**97092**
Antigen Region	**698-727**

PYGM Antibody (C-term) - Additional Information

Gene ID 5837

Other Names
Glycogen phosphorylase, muscle form, Myophosphorylase, PYGM

Target/Specificity
This PYGM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 698-727 amino acids from the C-terminal region of human PYGM.

Dilution
WB~~1:8000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
PYGM Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PYGM Antibody (C-term) - Protein Information

Name PYGM (HGNC:9726)

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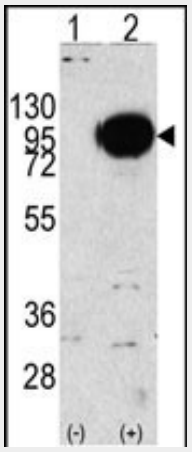
Function Allosteric enzyme that catalyzes the rate-limiting step in glycogen catabolism, the phosphorolytic cleavage of glycogen to produce glucose-1-phosphate, and plays a central role in maintaining cellular and organismal glucose homeostasis.

PYGM Antibody (C-term) - Protocols

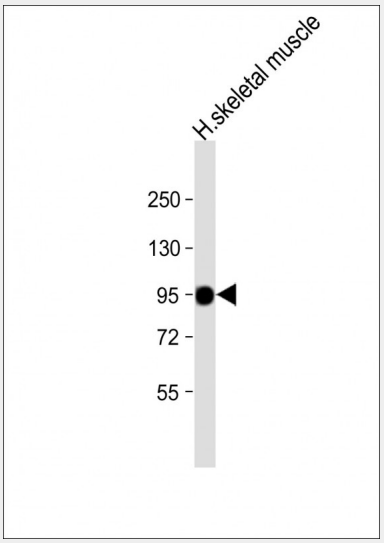
Provided below are standard protocols that you may find useful for product applications.

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

PYGM Antibody (C-term) - Images



Western blot analysis of PYGM (arrow) using rabbit polyclonal PYGM Antibody (C-term) (Cat.#AP1450b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PYGM gene (Lane 2) (Origene Technologies).



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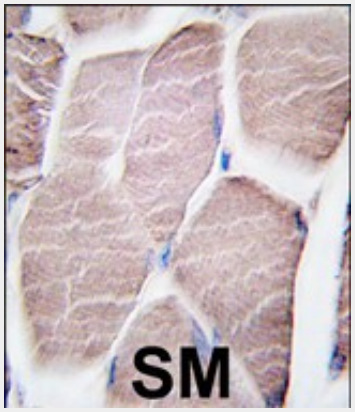
Anti-PYGM Antibody (C-term) at 1:8000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PYGM antibody (C-term) (Cat.#AP1450b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

PYGM Antibody (C-term) - Background

PYGM catalyzes and regulates the breakdown of glycogen to glucose-1-phosphate. Defects in PYGM are the cause of glycogen storage disease type 5 (GSD5), also known as McArdle disease. GSD5 is a metabolic disorder resulting in myopathy characterized by exercise intolerance, cramps, muscle weakness and recurrent myoglobinuria.

PYGM Antibody (C-term) - References

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Bruno, C., et al., Neuromuscul. Disord. 12(5):498-500 (2002).
Hadjigeorgiou, G.M., et al., Neuromuscul. Disord. 12(9):824-827 (2002).
Deschauer, M., et al., Mol. Genet. Metab. 74(4):489-491 (2001).
Kubisch, C., et al., Hum. Mutat. 12(1):27-32 (1998).