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PYGM Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1450b

Product Information

Application	WB, IHC-P, E
Primary Accession	P11217
Other Accession	Q8HXW4
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11945
Calculated MW	97092
Antigen Region	698-727

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~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	PYGM Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PYGM (HGNC:9726)
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.

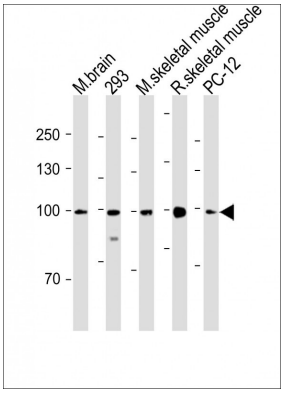
Background

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.

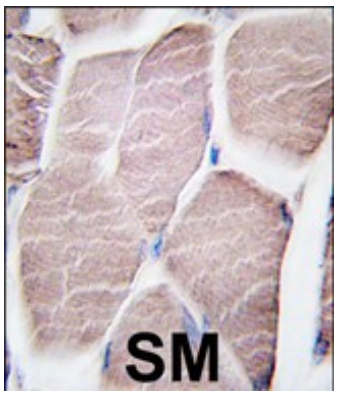
References

Tsoi, S.C., et al., J. Soc. Gynecol. Investig. 10(8):496-502 (2003).
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).

Images



All lanes: Anti-PYGM Antibody (C-term) at 1:2000 dilution Lane 1: Mouse brain lysate Lane 2: 293 whole cell lysate Lane 3: Mouse skeletal muscle lysate Lane 4: Rat skeletal muscle lysate Lane 5: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed 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.