abcam

Product datasheet

Anti-PYGM antibody ab63158

3 References 2 Images

Overview

Product name	Anti-PYGM antibody
Description	Rabbit polyclonal to PYGM
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide conjugated to KLH from the C terminal region of human PYGM.
Positive control	WB: 293 cell lysate. IHC-P: Human skeletal muscle.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	This antibody is purified through a protein A column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab63158 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/500. Detects a band of approximately 97 kDa (predicted molecular weight: 97 kDa).
IHC-P		1/10 - 1/50.

Target

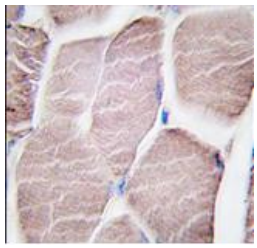
Function Phosphorylase is an important allosteric enzyme in carbohydrate metabolism. Enzymes from different sources differ in their regulatory mechanisms and in their natural substrates. However, all known phosphorylases share catalytic and structural properties.

Involvement in disease Defects in PYGM are the cause of glycogen storage disease type 5 (GSD5) [MIM:232600]; also known as McArdle disease. GSD5 is a metabolic disorder resulting in myopathy characterized by exercise intolerance, cramps, muscle weakness and recurrent myoglobinuria.

Sequence similarities Belongs to the glycogen phosphorylase family.

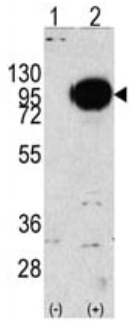
Post-translational modifications Phosphorylation of Ser-15 converts phosphorylase B (unphosphorylated) to phosphorylase A.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PYGM antibody (ab63158)

ab63158, at a 1/10 dilution, staining PYGM in formalin fixed, paraffin embedded human skeletal muscle tissue by Immunohistochemistry. ab63158 was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western blot - Anti-PYGM antibody (ab63158)

All lanes : Anti-PYGM antibody (ab63158) at 1/100 dilution

Lane 1 : Non-transfected 293 cell lysates
Lane 2 : Lysates of 293 cells transiently transfected with PYGM gene.

Lysates/proteins at 2 µg per lane.

Predicted band size: 97 kDa

Observed band size: 97 kDa

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