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Myoglobin Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2032a

Product Information

Application	WB, E
Primary Accession	P02144
Other Accession	P02189, P02150, NP_005359.1
Reactivity	Human, Mouse
Predicted	Monkey, Pig
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	444CT19.2.1
Calculated MW	17184
Antigen Region	103-130

Additional Information

Gene ID	4151
Other Names	Myoglobin, MB
Target/Specificity	This Myoglobin antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 103-130 amino acids from human Myoglobin.
Dilution	WB~~1:500~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
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	Myoglobin Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MB (HGNC:6915)
Function	Monomeric heme protein which primary function is to store oxygen and facilitate its diffusion within muscle tissues. Reversibly binds oxygen through a pentacoordinated heme iron and enables its timely and efficient release as needed during periods of heightened demand (PubMed:30918256,

PubMed:34679218). Depending on the oxidative conditions of tissues and cells, and in addition to its ability to bind oxygen, it also has a nitrite reductase activity whereby it regulates the production of bioactive nitric oxide (PubMed:32891753). Under stress conditions, like hypoxia and anoxia, it also protects cells against reactive oxygen species thanks to its pseudoperoxidase activity (PubMed:34679218).

Cellular Location Cytoplasm, sarcoplasm

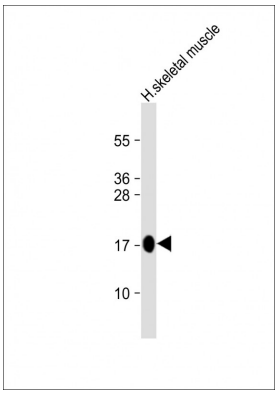
Background

This gene encodes a member of the globin superfamily and is expressed in skeletal and cardiac muscles. The encoded protein is a haemoprotein contributing to intracellular oxygen storage and transcellular facilitated diffusion of oxygen. At least three alternatively spliced transcript variants encoding the same protein have been reported.

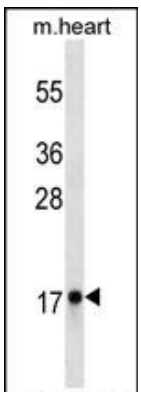
References

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Endeward, V., et al. Cardiovasc. Res. 87(1):22-29(2010)
Balobanov, V.A., et al. Mol. Biol. (Mosk.) 44(4):708-717(2010)
Kristiansen, G., et al. Br. J. Cancer 102(12):1736-1745(2010)
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Images



Anti- at 1:1000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Myoglobin Antibody (Cat. #AM2032a) western blot analysis in mouse heart tissue lysates (35µg/lane).This demonstrates the Myoglobin antibody detected the Myoglobin protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.