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Myoglobin Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8438c

Product Information

Application	WB, E
Primary Accession	P02144
Reactivity	Human, Mouse
Predicted	Bovine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	773CT18.2.2
Calculated MW	17184

Additional Information

Gene ID	4151
Other Names	Myoglobin, MB
Target/Specificity	This Myoglobin antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 118-150 amino acids from the C-terminal region of human Myoglobin.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	Myoglobin Antibody (C-term) 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

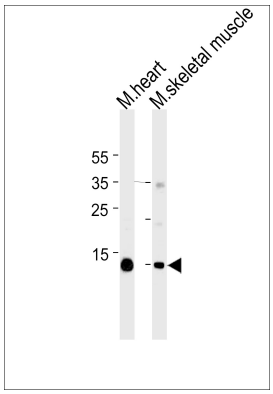
Background

Serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles.

References

Weller P.,et al.EMBO J. 3:439-446(1984).
Akaboshi E.,et al.Gene 33:241-249(1985).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Dunham I.,et al.Nature 402:489-495(1999).

Images



Western blot analysis of lysates from mouse heart and skeletal muscle tissue lysates (from left to right), using Myoglobin Antibody (C-term)(Cat. #AM8438c). AM8438c was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

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