

Myoglobin Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8438c

Product Information

Application	WB, E
Primary Accession	P02144
Reactivity	Human, Mouse
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

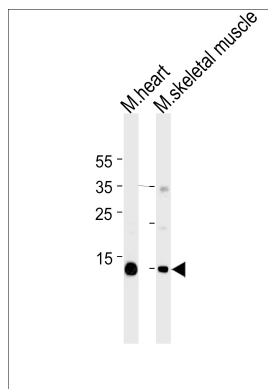
Background

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'.