10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Myoglobin Antibody (C-term)
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8438c

Specification

Myoglobin Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P02144
Other Accession	P02189, P02150, P68082
Reactivity	**Mouse**
Predicted	**Horse, Monkey, Pig**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**

Myoglobin Antibody (C-term) - 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.

Myoglobin Antibody (C-term) - 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).

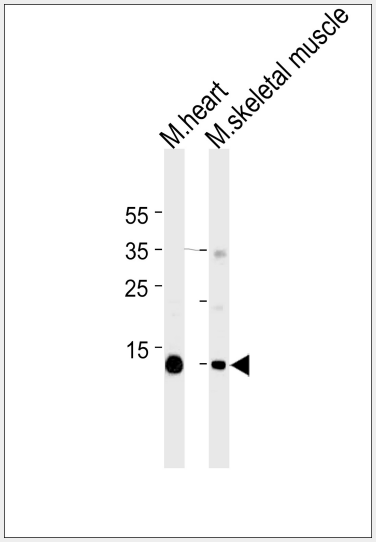
Cellular Location
Cytoplasm, sarcoplasm

Myoglobin Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Myoglobin Antibody (C-term) - 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.

Myoglobin Antibody (C-term) - Background

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

Myoglobin Antibody (C-term) - 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).