

Anti-Myoglobin Antibody (Monoclonal, MG-1)
Catalog # ABO10450**Specification**

Anti-Myoglobin Antibody (Monoclonal, MG-1) - Product Information

Application	WB
Primary Accession	Q9QZ76
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for Myoglobin, myoglobin (MB) detection. Tested with IHC-P in Human. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Myoglobin Antibody (Monoclonal, MG-1) - Additional Information

Gene ID 59108

Other Names

Myoglobin, Mb

Calculated MW

17157 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 1-2 µg/ml, Human, By Heat

Protein Name

Myoglobin

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Purified human skeletal muscle myoglobin.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

**At -20°C for one year. After r°Constitution,
at 4°C for one month. It°Can also be**

aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the globin family.

Anti-Myoglobin Antibody (Monoclonal, MG-1) - Protein Information

Name Mb {ECO:0000312|RGD:620411}

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:3118370). 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. Under stress conditions, like hypoxia and anoxia, it also protects cells against reactive oxygen species thanks to its pseudoperoxidase activity (By similarity).

Cellular Location

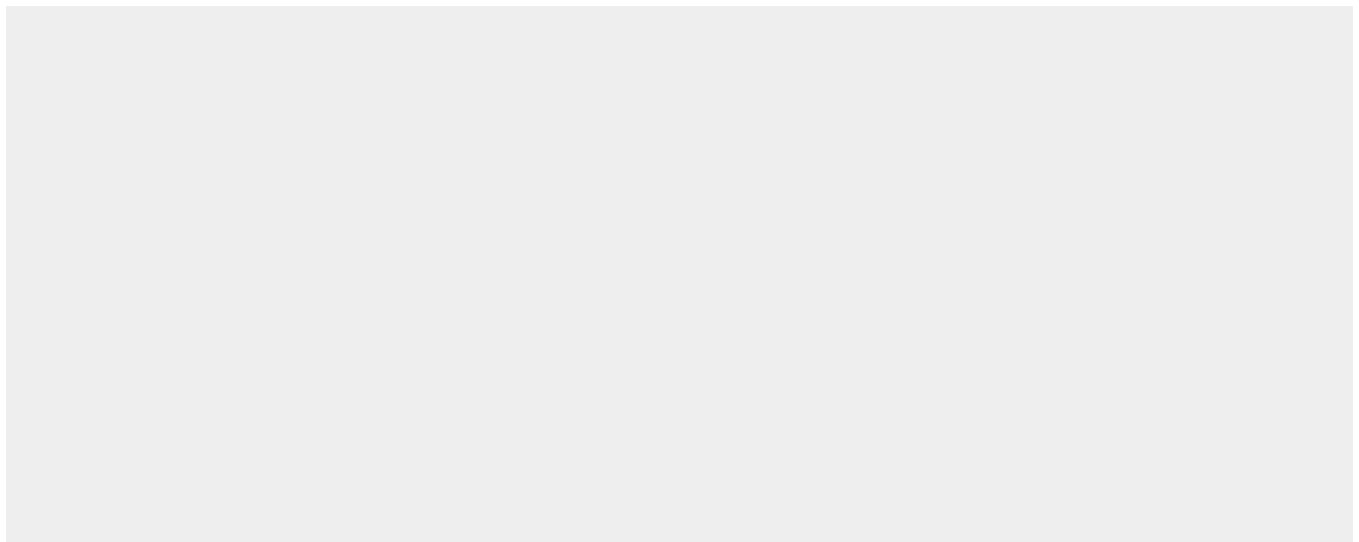
Cytoplasm, sarcoplasm {ECO:0000250|UniProtKB:P02144}

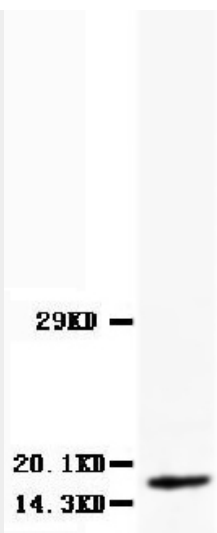
Anti-Myoglobin Antibody (Monoclonal, MG-1) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Myoglobin Antibody (Monoclonal, MG-1) - Images





Anti-Myoglobin antibody (monoclonal), ABO10450, Western blottingWB: Rat Skeletal Muscle Tissue Lysate

Anti-Myoglobin Antibody (Monoclonal, MG-1) - Background

Human myoglobin has 152 residues. Two myoglobin variants were found. The myoglobin locus mapped to 22q11-22q13. The myoglobin gene is about 10.5 kb long and contains two introns as in the case with hemoglobin genes. Myoglobin may serve a variety of functions in muscular oxygen supply, such as O(2) storage, facilitated O(2) diffusion, and myoglobin-mediated oxidative phosphorylation.