

**Anti-Myoglobin MB Rabbit Monoclonal Antibody**  
Catalog # ABO13980**Specification****Anti-Myoglobin MB Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP
Primary Accession	<a href="#">P02144</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Myoglobin MB Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Myoglobin MB Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 4151

**Other Names**

Myoglobin, Nitrite reductase MB, 1.7.-.-, Pseudoperoxidase MB, 1.11.1.-, MB ([HGNC:6915](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6915))

**Calculated MW**

17184 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:30

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Myoglobin

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Myoglobin MB Rabbit Monoclonal Antibody - 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:<a href="http://www.uniprot.org/citations/30918256" target="\_blank">30918256</a>, PubMed:<a href="http://www.uniprot.org/citations/34679218" target="\_blank">34679218</a>). 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:<a href="http://www.uniprot.org/citations/32891753" target="\_blank">32891753</a>). Under stress conditions, like hypoxia and anoxia, it also protects cells against reactive oxygen species thanks to its pseudoperoxidase activity (PubMed:<a href="http://www.uniprot.org/citations/34679218" target="\_blank">34679218</a>).

### Cellular Location

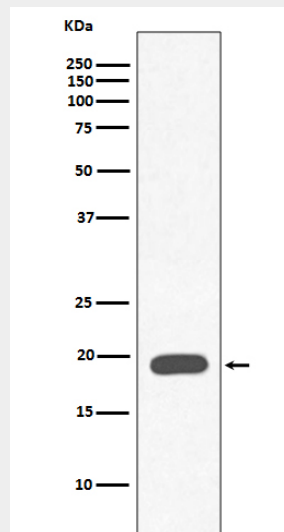
Cytoplasm, sarcoplasm

## Anti-Myoglobin MB Rabbit Monoclonal Antibody - Protocols

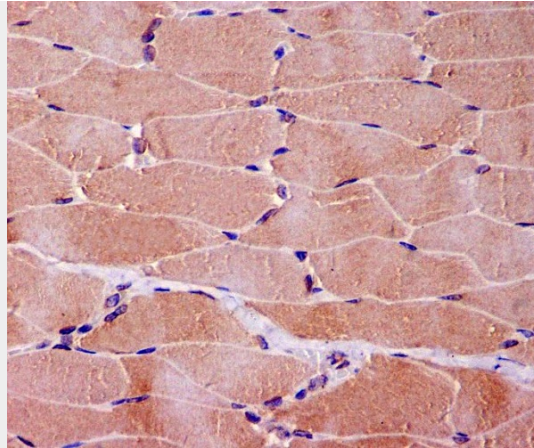
Provided below are standard protocols that you may find useful for product applications.

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

## Anti-Myoglobin MB Rabbit Monoclonal Antibody - Images



Western blot analysis of Myoglobin expression in Human heart muscle lysate.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle, using Myoglobin Antibody.

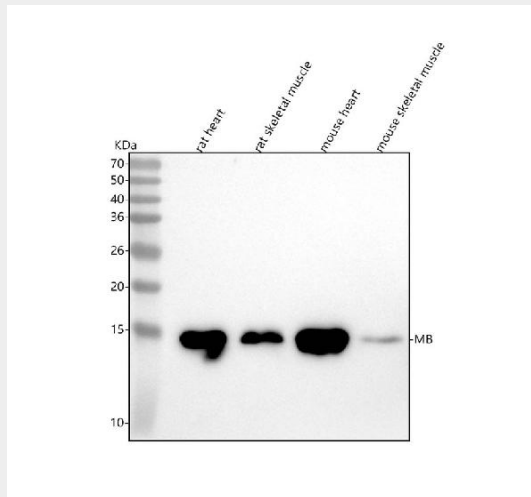


Figure 1. Western blot analysis of MB using anti-MB antibody (M04058).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: rat heart tissue lysates,
- Lane 2: rat skeletal muscle tissue lysates,
- Lane 3: mouse heart tissue lysates,
- Lane 4: mouse skeletal muscle tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MB antigen affinity purified monoclonal antibody (Catalog # M04058) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MB at approximately 15 kDa. The expected band size for MB is at 17 kDa.