

MB / Myoglobin Antibody
Mouse Monoclonal Antibody
Catalog # ALS15191**Specification**

MB / Myoglobin Antibody - Product Information

Application	WB, IHC
Primary Accession	P02144
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	17kDa KDa

MB / Myoglobin Antibody - Additional Information**Gene ID** 4151**Other Names**

Myoglobin, MB

Reconstitution & Storage

Long term: -20°C; Short term: -20°C

Precautions

MB / Myoglobin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MB / Myoglobin 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: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

Volume

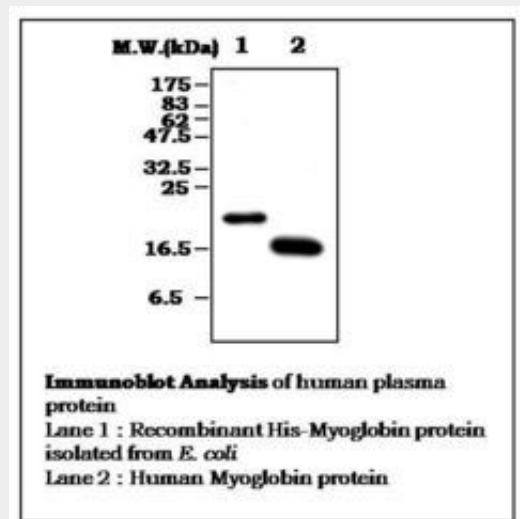
50 µl

MB / Myoglobin Antibody - Protocols

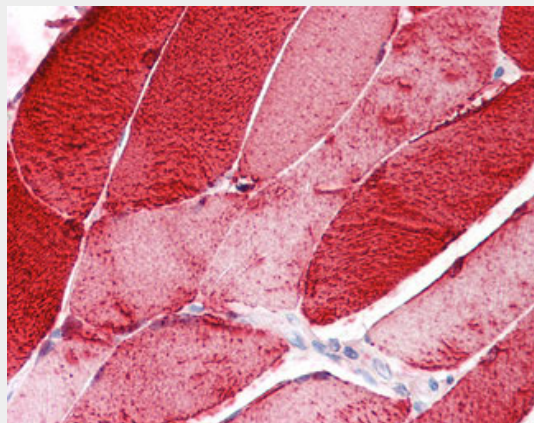
Provided below are standard protocols that you may find useful for product applications.

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

MB / Myoglobin Antibody - Images



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Anti-Myoglobin antibody IHC of human skeletal muscle.

MB / Myoglobin Antibody - Background

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

MB / Myoglobin Antibody - 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).