

MB / Myoglobin Antibody
Rabbit Polyclonal Antibody
Catalog # ALS15545**Specification**

MB / Myoglobin Antibody - Product Information

Application	IHC
Primary Accession	P02144
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17kDa KDa

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

Myoglobin, MB

Reconstitution & Storage

+4°C, avoid freezing

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

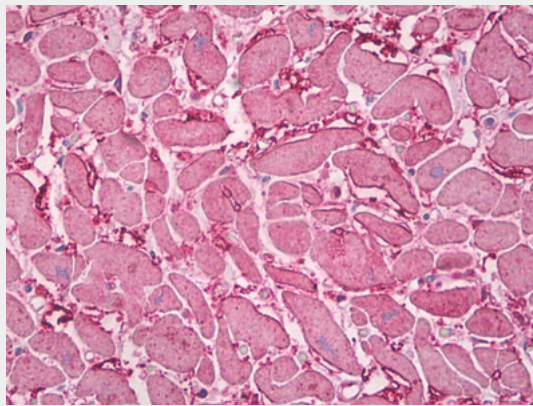
Cytoplasm, sarcoplasm

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



Anti-Myoglobin antibody IHC of human heart.

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).