

MB / Myoglobin Antibody

Rabbit Polyclonal Antibody Catalog # ALS13938

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 & StorageStore at 2°C to 8°C degrees. Do not freeze.

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 blank">34679218 blank">34679218

Cellular Location

Cytoplasm, sarcoplasm

Volume



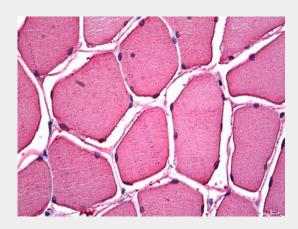
250 µl

MB / Myoglobin Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MB / Myoglobin Antibody - Images



Anti-MB / 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).