

# Anti-Myoglobin Antibody

Mouse monoclonal antibody to Myoglobin

Catalog # AP61624

## Product Information

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Application	IHC
Primary Accession	<a href="#">P02144</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	17184

## Additional Information

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Gene ID	4151
Other Names	Myoglobin
Target/Specificity	Recognizes endogenous levels of Myoglobin protein.
Dilution	IHC~~1:100~500
Format	Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	MB ( <a href="#">HGNC:6915</a> )
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="#">30918256</a> , PubMed: <a href="#">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="#">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="#">34679218</a> ).
Cellular Location	Cytoplasm, sarcoplasm

## Background

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KLH-conjugated synthetic peptide encompassing a sequence within human Myoglobin. The exact sequence is proprietary.

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