

**Anti-Myoglobin Antibody**  
Catalog # ABO11134**Specification**

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**Anti-Myoglobin Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P02144</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Myoglobin(MB) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Myoglobin Antibody - Additional Information**

**Gene ID** 4151

**Other Names**

Myoglobin, MB

**Calculated MW**

17184 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Protein Name**

myoglobin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Myoglobin(138-154aa LFRKDMASNYKELGFQG).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r° Constitution, at 4°C for one month. It° Can also be aliquotted and stored frozen at -20°C for a**

**longer time. Avoid repeated freezing and thawing.**

### Sequence Similarities

Belongs to the globin family.

## Anti-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](http://www.uniprot.org/citations/30918256), PubMed: [34679218](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/32891753)). Under stress conditions, like hypoxia and anoxia, it also protects cells against reactive oxygen species thanks to its pseudoperoxidase activity (PubMed: [34679218](http://www.uniprot.org/citations/34679218)).

### Cellular Location

Cytoplasm, sarcoplasm

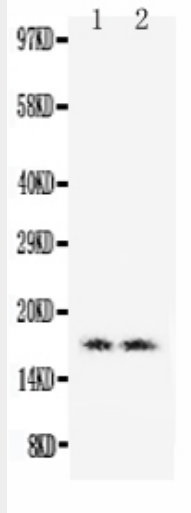
## Anti-Myoglobin Antibody - Protocols

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](#)

## Anti-Myoglobin Antibody - Images





Anti-Myoglobin antibody, ABO11134, Western blotting Lane 1: Human Placenta Tissue Lysate Lane 2: Human Placenta Tissue Lysate

#### **Anti-Myoglobin Antibody - Background**

Myoglobin(MB) also known as PVALB, is a single-chain globular protein of 153 or 154 amino acids, containing a heme (iron-containing porphyrin) prosthetic group in the center around which the remaining apoprotein folds. It is a member of the globin superfamily and is expressed in skeletal and cardiac muscles. This gene is mapped to chromosome 22q11-q13. Myoglobin is released from damaged muscle tissue (rhabdomyolysis), which has very high concentrations of myoglobin. The released myoglobin is filtered by the kidneys but is toxic to the renal tubular epithelium and so may cause acute renal failure.