10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Myoglobin Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6708b

Specification

Myoglobin Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P02144

Myoglobin Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 4151

Other Names
Myoglobin, MB

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6708b was selected from the C-term region of human Myoglobin. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Myoglobin Antibody (C-term) Blocking Peptide - 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

Myoglobin Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Myoglobin Antibody (C-term) Blocking Peptide - Images

Myoglobin Antibody (C-term) Blocking Peptide - Background

Myoglobin is a member of the globin superfamily and is expressed in skeletal and cardiac muscles. The protein is a haemoprotein contributing to intracellular oxygen storage and transcellular facilitated diffusion of oxygen.

Myoglobin Antibody (C-term) Blocking Peptide - References

Flonta,S.E., Am. J. Pathol. 175 (1), 201-206 (2009)Kanatous,S.B., Am. J. Physiol., Cell Physiol. 296 (3), C393-C402 (2009)