

Mouse Myoglobin Monoclonal Antibody | anti-MB antibody

Myoglobin Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283565	Mouse	MousePredicted: Horse, Monkey, Pig	ELISA, Western Blot

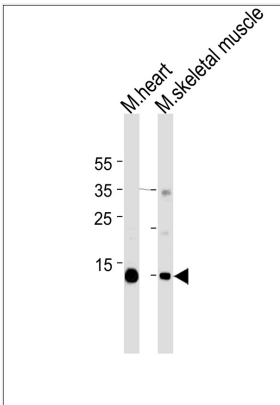
PRODUCT SYNONYMS

Myoglobin; Monoclonal Antibody; Myoglobin Antibody (C-term); MB; anti-MB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse Predicted: Horse, Monkey, Pig
Clonality	Monoclonal
Isotype	IgG1
Specificity	This Myoglobin antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 118-150 amino acids from the C-terminal region of human Myoglobin.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	154
Applicable Applications for anti-MB antibody	ELISA, WB (Western Blot)
Celular Location	Cytoplasm, sarcoplasm
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).
Preparation and Storage	Store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of lysates from mouse heart and skeletal muscle tissue lysates (from left to right), using Myoglobin Antibody (C-term). AAA283565 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-MB antibody	Serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles.
Product Categories/Family for anti-MB antibody	Crown Antibodies ; Cancer ; Cardiovascular ; Neuroscience
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885477
NCBI GeneID	4151
NCBI Accession #	NP_005359.1
NCBI GenBank Nucleotide #	NM_005368.2
UniProt Accession #	P02144; Q52H51; Q5THY7
NCBI Official Full Name	myoglobin
NCBI Official Synonym Full Names	myoglobin
NCBI Official Symbol	MB
NCBI Official Synonym Symbols	PVALB; myoglobin
NCBI Protein Information	myoglobin
UniProt Protein Name	Myoglobin
UniProt Gene Name	MB
UniProt Entry Name	MYG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/myoglobin-antibody-western-blot-elisa/283565>