

Mouse anti-Human, Mouse Myoglobin Monoclonal Antibody | anti-MB antibody

Mouse anti-human Myoglobin monoclonal antibody

CATALOG # AAA114272	HOST Mouse	REACTIVITY Human, Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot, ELISA
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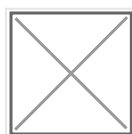
PRODUCT SYNONYMS

Myoglobin; Monoclonal Antibody; Mouse anti-human Myoglobin monoclonal antibody; myoglobin;MB;MGC13548;PVALB; anti-MB antibody

PRODUCT SPECIFICATIONS

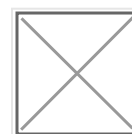
Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	7A3D2
Specificity	Specific for Human Myoglobin denatured and native forms
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	154
Applicable Applications for anti-MB antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Myoglobin protein
Product Type	Monoclonal Antibody
Immunogen Species	Homo sapiens (Human)
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Non-conjugated
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze/thaw.

IMAGES



WB (Western Blot)

Positive WB detected in: Mouse heart tissue, Mouse skeletal muscle tissueAll lanes: MB antibody at 1:2000SecondaryGoat polyclonal to Mouse IgG at 1/50000 dilutionPredicted band size: 18 kDaObserved band size: 18 kDa



IF (Immunofluorescence)

Immunofluorescent analysis of MCF-7 cells using AAA114272 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)



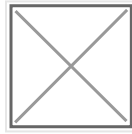
IHC (Immunohistochemisry)

Immunohistochemical of paraffin-embedded human heart tissue using AAA114272 at dilution of 1:100



WB (Western Blot)

Western BlotAll lanes: Mouse anti-Human Myoglobin monoclonal antibody at 1ug/mlLane 1: Myoglobin transfected 293 cell lysateSecondary HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilutionPredicted band size: 18 kDaObserved band size: 20 kDaAdditional bands at: 23, 25, 40 kDa



WB (Western Blot)

All lanes: Mouse anti-Human Myoglobin monoclonal antibody at 0.3ug/mlLane 1: Mouse heart muscle lysateLane 2: Recombinant Myoglobin at 10ugSecondary HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilutionPredicted band size: 18 kDaObserved band size: 20 kDaAdditional bands at: 120 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-MB antibody

Myoglobin is a small heme containing protein (153 amino acid residues, molecular weight (w/o heme) 17053 Da and theoretical pI=7.29) responsible for the oxygen deposition in muscle tissues. Only one form of myoglobin is expressed in cardiac and skeletal muscles. Myoglobin is known as a marker of myocardial damage and it has been used for more than three decades. Nowadays it still is very commonly used in clinical practice as an early marker of AMI. It appears in patient's blood 1 to 3 hours after onset of the symptoms, reaching peak level within 8 to 12 hours. Myoglobin is not so cardiac specific as cTnI or cTnT. Because of high myoglobin concentration in skeletal muscle tissue, even minor skeletal muscle injury results in the significant increase of myoglobin concentration in blood. Thus myoglobin is used together with cTnI or cTnT in clinical practise for better specificity in AMI identification.

This gene encodes a member of the globin superfamily and is expressed in skeletal and cardiac muscles. The encoded protein is a haemoprotein contributing to intracellular oxygen storage and transcellular facilitated diffusion of oxygen. At least three alternatively spliced transcript variants encoding the same protein have been reported.

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; myoglobgin
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-clone-7a3d2-immunofluorescence-immunohistochemistry-western-blot-elisa/114272>