

For Research Use Only

# Myoglobin Monoclonal antibody

Catalog Number: 66205-1-Ig



## Basic Information

<b>Catalog Number:</b> 66205-1-Ig	<b>GenBank Accession Number:</b> BC014547	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 407 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4151	<b>CloneNo.:</b> 1A4F7
<b>Source:</b> Mouse	<b>Full Name:</b> myoglobin	<b>Recommended Dilutions:</b> WB 1:5000-1:80000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 154 aa, 17 kDa	
<b>Immunogen Catalog Number:</b> AG8979	<b>Observed MW:</b> 17-18 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, rat, mouse, rabbit, pig	<b>WB :</b> human skeletal muscle tissue, pig heart tissue, rat heart tissue, mouse heart tissue, rabbit heart tissue, human heart tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human heart tissue, mouse tongue tissue, rat heart tissue

## Background Information

Myoglobin is a cytoplasmic hemoprotein that is expressed primarily in cardiomyocytes and oxidative skeletal muscle fibers, functioning on facilitating oxygen transport and modulating nitric oxide homeostasis within cardiac and skeletal myocytes. Recent studies indicated that myoglobin was also expressed in non-muscle tissues. This antibody well recognized endogenous myoglobin in muscle lysates.

## Storage

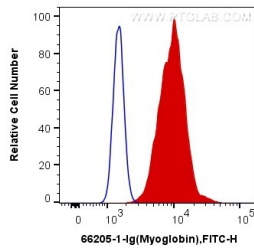
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

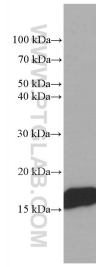
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

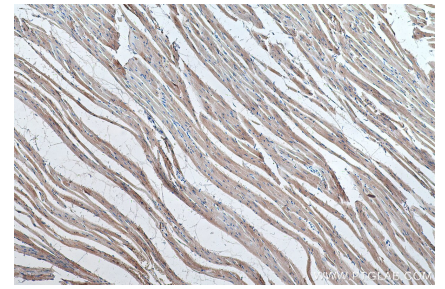
## Selected Validation Data



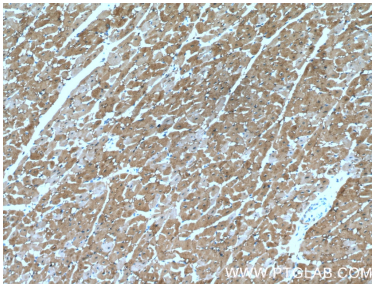
1X10<sup>6</sup> C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Myoglobin (66205-1-Ig, Clone:1A4F7) and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



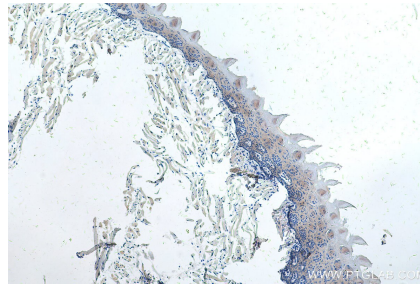
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66205-1-Ig (Myoglobin antibody at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 66205-1-Ig (Myoglobin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66205-1-Ig (Myoglobin antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded mouse tongue tissue slide using 66205-1-Ig (Myoglobin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).