

Product datasheet

Anti-Myoglobin antibody [EP3081Y] α b77232

Recombinant RabMAb

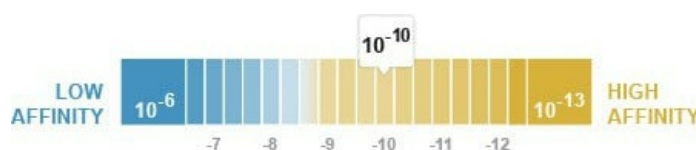
★★★★★ [1 Abreviews](#) [29 References](#) [14 Images](#)

Overview

Product name	Anti-Myoglobin antibody [EP3081Y]
Description	Rabbit monoclonal [EP3081Y] to Myoglobin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Myoglobin aa 100-200 (C terminal). The exact sequence is proprietary. Database link: P02144
Positive control	Human, rat and mouse muscle tissue lysates; human heart muscle tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Dissociation constant (K_D)	$K_D = 1.78 \times 10^{-10}$ M



[Learn more about \$K_D\$](#)

Storage buffer	pH: 7.20
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	Preservative: 0.01% Sodium azide
	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP3081Y
Isotype	IgG

Applications

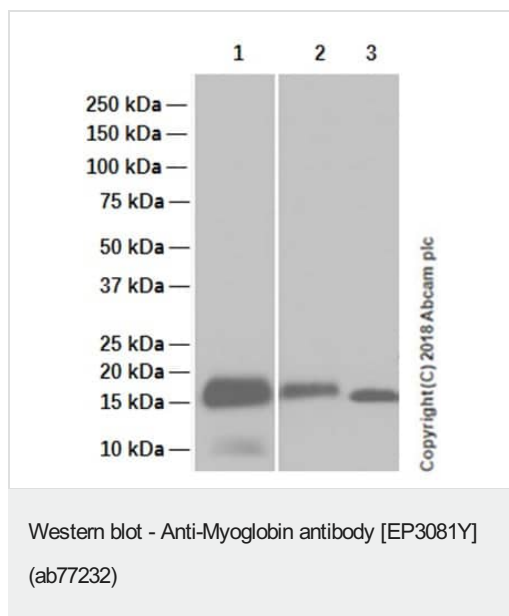
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab77232 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/5000. Predicted molecular weight: 17 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. Use of an HRP/AP polymerized secondary antibody is recommended. See <u>IHC antigen retrieval protocols</u> .
ICC/IF		Use at an assay dependent concentration.

Target

Function	Serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles.
Sequence similarities	Belongs to the globin family.

Images



All lanes : Anti-Myoglobin antibody [EP3081Y] (ab77232) at 1/5000 dilution (Purified)

Lane 1 : Human muscle lysate with 5% NFDM/TBST

Lane 2 : Mouse muscle lysate with 5% NFDM/TBST

Lane 3 : Rat muscle lysate with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

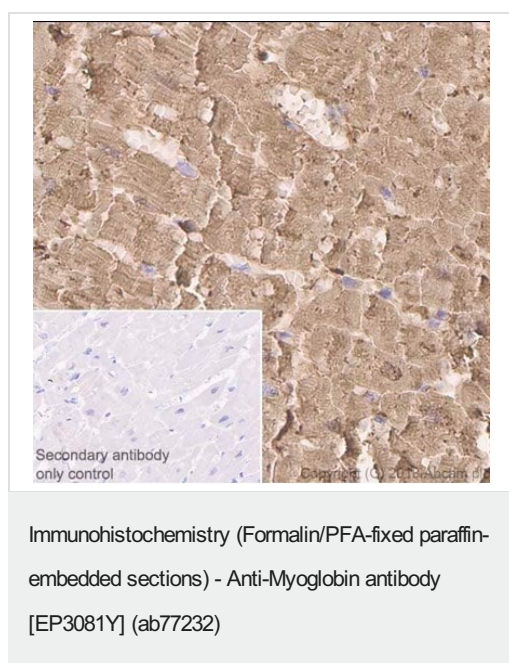
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

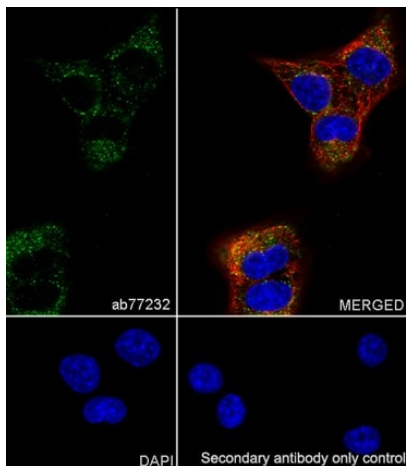
Predicted band size: 17 kDa

Observed band size: 17 kDa

Exposure time: 1 second

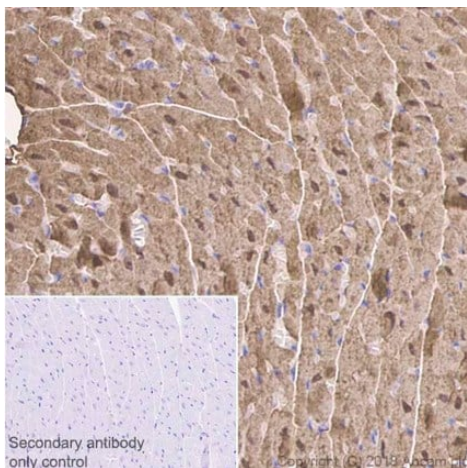


Purified ab77232 staining Myoglobin in Human cardiac muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde; antigen retrieval was by heat mediation in a Tris/EDTA buffer (**ab93684** Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/1000). A HRP-conjugated Goat Anti-Rabbit IgG H&L (ready to use) was used as the secondary antibody. Counterstained with Hematoxylin.



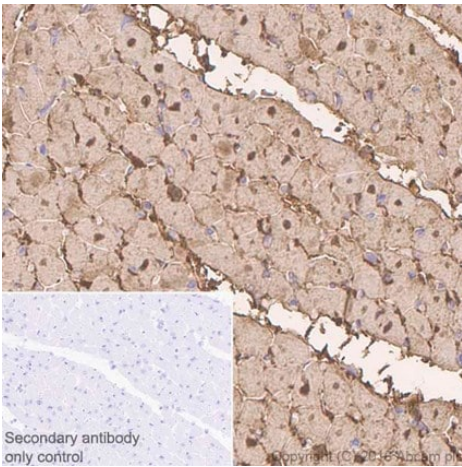
Immunocytochemistry/ Immunofluorescence - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Purified ab77232 staining Myoglobin in the C2C12 (mouse myoblasts myoblast) cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with methanol. Samples were incubated with primary antibody and an Alexa Fluor® 488-conjugated Goat anti-rabbit IgG ([ab150077](#)) was used as the secondary antibody. Counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) and DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Purified ab77232 staining Myoglobin in Mouse cardiac muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde; antigen retrieval was by heat mediation in a Tris/EDTA buffer ([ab93684](#) Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/1000). A HRP-conjugated Goat Anti-Rabbit IgG H&L (ready to use) was used as the secondary antibody. Counterstained with Hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

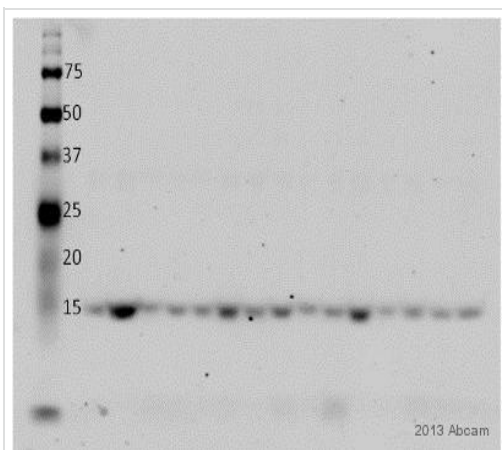
Purified ab77232 staining Myoglobin in Rat cardiac muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde; antigen retrieval was by heat mediation in a Tris/EDTA buffer (**ab93684** Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/1000). A HRP-conjugated Goat Anti-Rabbit IgG H&L (ready to use) was used as the secondary antibody. Counterstained with Hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Unpurified ab77232 showing positive staining in human Skeletal muscle tissue.

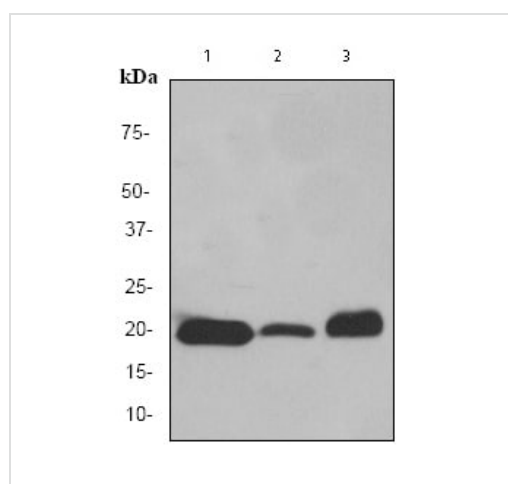
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Western blot - Anti-Myoglobin antibody [EP3081Y]
(ab77232)

This image is courtesy of an anonymous Abreview

Western blot analysis of Pig skeletal muscle whole tissue lysate (10µg/lane) labelling Myoglobin with unpurified ab77232 at 1/5000 in 1x PBS + 0.1% Tween-20 for 17 hours at 4°C. A IRDye® 680-conjugated Donkey anti-rabbit polyclonal (1/40000) was used as the secondary antibody.



Western blot - Anti-Myoglobin antibody [EP3081Y]
(ab77232)

All lanes : Anti-Myoglobin antibody [EP3081Y] (ab77232) at 1/5000 dilution (Unpurified)

Lane 1 : Human heart muscle lysate

Lane 2 : Mouse heart muscle lysate

Lane 3 : Rat heart muscle lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 17 kDa

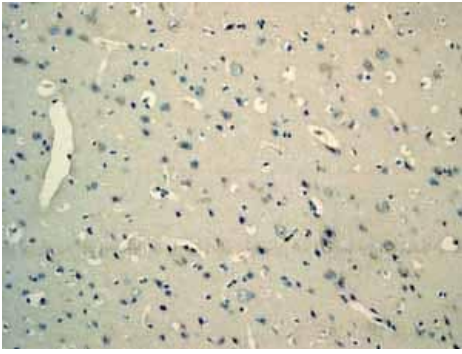
Observed band size: 17 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Unpurified ab77232, at a 1/250 dilution, staining Myoglobin in paraffin embedded human heart muscle by Immunohistochemistry.

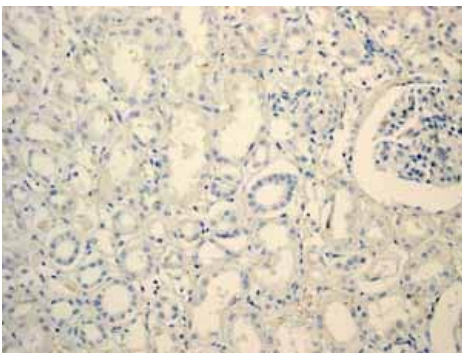
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Unpurified ab77232 showing negative staining in Normal human brain tissue.

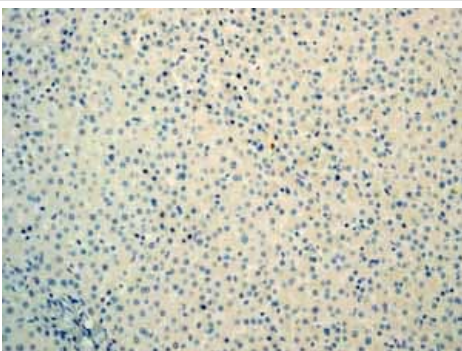
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Unpurified ab77232 showing negative staining in Normal human kidney tissue.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoglobin antibody [EP3081Y] (ab77232)

Unpurified ab77232 showing negative staining in Normal human liver tissue.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

OI-RD Scanning - Anti-Myoglobin antibody
[EP3081Y] (ab77232)

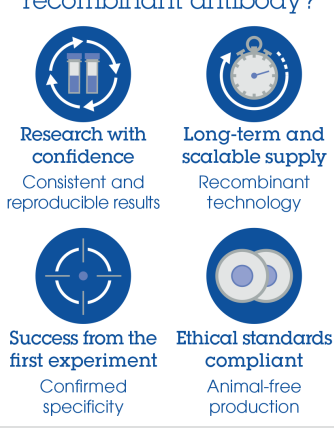
Produced using unpurified ab77232.

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-Myoglobin antibody [EP3081Y] (ab77232)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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