


## Product datasheet

# Anti-MYH6 antibody [BA-G5] ab50967

★★★★★ 10 Abreviews 46 References 6 Images

### Overview

<b>Product name</b>	Anti-MYH6 antibody [BA-G5]
<b>Description</b>	Mouse monoclonal [BA-G5] to MYH6
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IHC-FoFr, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Rabbit, Human, Pig <b>Predicted to work with:</b> Cow 
<b>Immunogen</b>	Cow skeletal muscle myosin
<b>Positive control</b>	This antibody gave a positive signal in the following Tissue Lysates: Mouse Skeletal Muscle, Rat Heart, Rat Skeletal Muscle
<b>General notes</b>	This antibody clone is manufactured by Abcam.  If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a> or you can find further information <a href="#">here</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BA-G5
<b>Isotype</b>	IgG2b

### Applications

Our [Abpromise guarantee](#) covers the use of **ab50967** in the following tested applications.

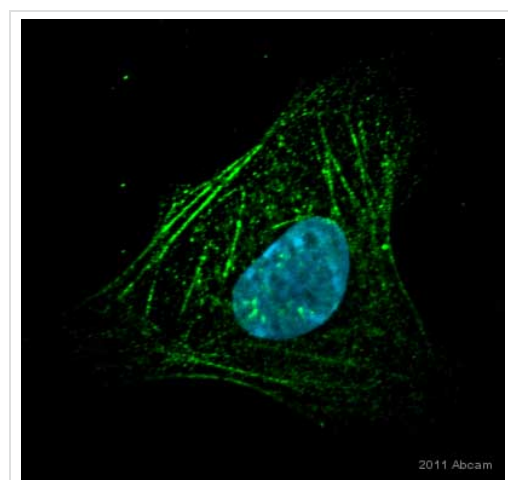
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 223 kDa (predicted molecular weight: 223 kDa).
IHC-P	★★★★★	1/100.
IHC-FoFr		Use at an assay dependent concentration.
ICC/IF	★★★★★	Use at an assay dependent concentration. PubMed: 20139090

## Target

<b>Function</b>	Muscle contraction.
<b>Involvement in disease</b>	Atrial septal defect 3 Cardiomyopathy, familial hypertrophic 14 Cardiomyopathy, dilated 1EE Sick sinus syndrome 3
<b>Sequence similarities</b>	Contains 1 IQ domain. Contains 1 myosin head-like domain.
<b>Domain</b>	The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils. Each myosin heavy chain can be split into 1 light meromyosin (LMM) and 1 heavy meromyosin (HMM). It can later be split further into 2 globular subfragments (S1) and 1 rod-shaped subfragment (S2).
<b>Cellular localization</b>	Cytoplasm > myofibril. Thick filaments of the myofibrils.

## Images



ab50967 staining MYH6 in murine HL-1 cells (derived from an atrial tumor) by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde, permeabilized with 0.5% Triton X-100, blocked with 10% serum for 30 minutes at 21°C and then incubated with ab50967 at a 1/200 dilution for 16 hours at 4°C. The secondary used was a goat anti-mouse polyclonal conjugated to Alexa-Fluor 488, used at a 1/400 dilution. Counterstained with DAPI.

Immunocytochemistry/ Immunofluorescence - Anti-MYH6 antibody [BA-G5] (ab50967)

Image courtesy of an anonymous Abreview.



Western blot - Anti-MYH6 antibody [BA-G5] (ab50967)

Anti-MYH6 antibody [BA-G5] (ab50967) at 5 µg/ml + Heart (Mouse)  
Tissue Lysate at 10 µg

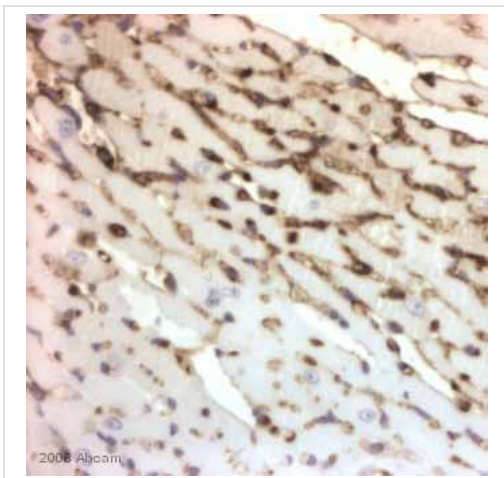
**Secondary**

IRDye 680 Conjugated Goat Anti-Mouse IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 223 kDa

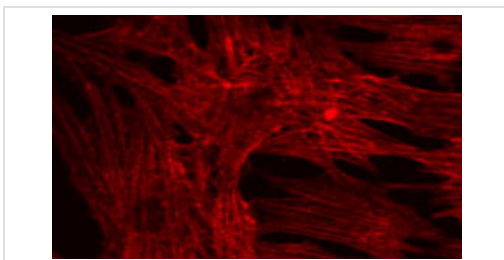
**Observed band size:** 223 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH6 antibody [BA-G5] (ab50967)

This image is courtesy of an Abreview submitted by Antibody Solutions Ltd

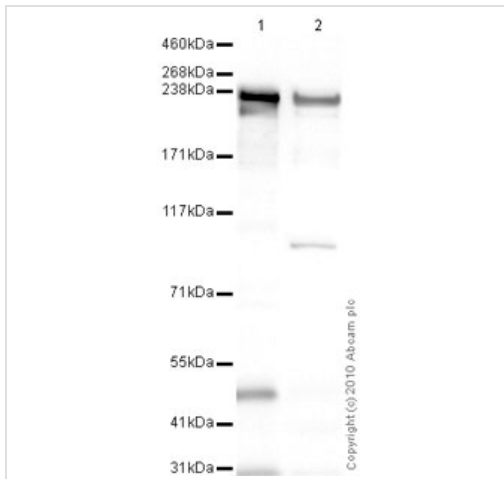
ab50967 staining MYH6 in mouse heart tissue sections by IHC-P. Sections were formaldehyde fixed and subjected to heat mediated antigen retrieval in citrate buffer pH 6, prior to blocking with sequential peroxidase and protein block (prediluted) for 20 minutes at 20°C. The primary antibody was diluted 1/100 and incubated with the sample for 45 minutes at 20°C. A HRP conjugated goat anti-mouse antibody was used as the secondary.



Immunocytochemistry/ Immunofluorescence - Anti-MYH6 antibody [BA-G5] (ab50967)

Image from Mayers CM et al, J Biol Chem. 2010 Apr 16;285(16):12344-54. Epub 2010 Feb 5, Fig 3.

ab50967 at a 1/200 dilution staining MYH6 in murine heterozygote cardiomyocytes by Immunocytochemistry/ Immunofluorescence.



Western blot - Anti-MYH6 antibody [BA-G5] (ab50967)

**All lanes :** Anti-MYH6 antibody [BA-G5] (ab50967) at 1 µg/ml

**Lane 1 :** Heart (Rat) Tissue Lysate

**Lane 2 :** Skeletal Muscle (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 223 kDa

**Observed band size:** 223 kDa

**Additional bands at:** 48 kDa, 95 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 4 minutes



ab50967 staining MYH6 in Mouse whole embryo tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 20% serum for 30 minutes at 22°C; antigen retrieval was by heat mediation. Samples were incubated with primary antibody (1/100 in 5% Goat serum) for 16 hours at 4°C. An undiluted Alexa Fluor®488-conjugated Goat anti-mouse IgG polyclonal was used as the secondary antibody.

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