

# Actin Muscle Monoclonal Antibody (HHF35)

## Product Details

Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HHF35
Conjugate	Unconjugated
Immunogen	SDS extract of human myocardium
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10975398

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:500	-
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100	1 Publication
Immunocytochemistry (ICC/IF)	1:10-1:100	2 Publications

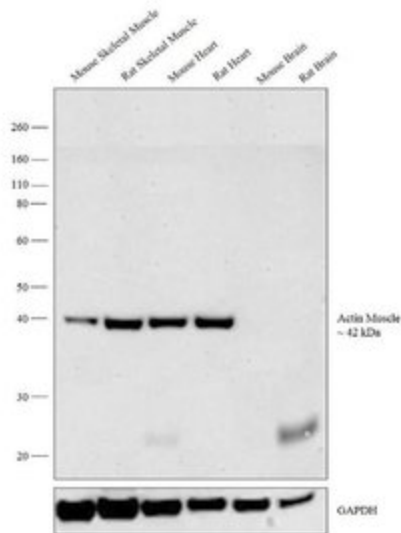
## Product Specific Information

This antibody reacts with actin from tissue extracts of uterus, ileum, aorta, diaphragm, heart and smooth muscle cells. It recognizes alpha-actin from skeletal, cardiac, and smooth muscle, and reacts with gamma actin from smooth muscle. This antibody will react with tumors from smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle tumors (rhabdomyomas and rhabdomyosarcomas).

Staining of formalin-fixed tissues requires boiling in 1mM EDTA, pH 8.0, followed by cooling at room temperature for 20 min.

**Actin Muscle Antibody (MA5-14084)**

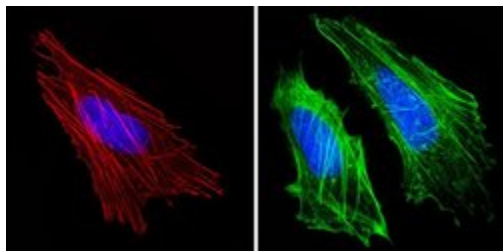
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of Actin Muscle was observed in muscle tissues (skeletal muscle and heart) in comparison to non muscle tissues (brain and liver) using (Product # MA5-14084) in western blot. Relative expression validation info.



**Product Images For Actin Muscle Monoclonal Antibody (HHF35)**

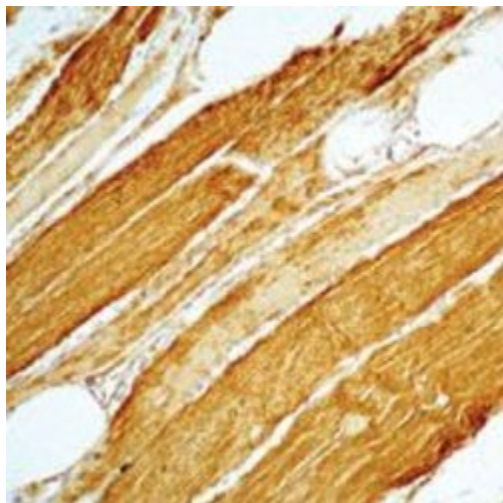
**Actin Muscle Antibody (MA5-14084) in ICC/IF**

Immunofluorescent analysis of Actin Muscle Specific (green) showing staining in the cytoplasm of HeLa cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with an Actin Muscle Specific monoclonal antibody (Product # MA5-14084) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 100x.



**Actin Muscle Antibody (MA5-14084) in IHC**

Formalin-fixed, paraffin-embedded human skeletal Muscle stained with Muscle Specific Actin antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of muscle cells.



## 13 References

### Immunohistochemistry (10)

Pathology international

#### Myointimoma of the glans penis.

"MA5-14084 was used in immunohistochemistry to report on a case of myointimoma of the glans penis"

Authors: Vardar E, Gunlusoy B, Arslan M, Kececi S

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2007

Pathology, research and practice

#### Chorangiosis: the potential role of smoking and air pollution.

"MA5-14084 was used in immunohistochemistry to investigate the role of smoking and air pollution in the development of chorangiosis"

Authors: Akbulut M, Sorkun HC, Bir F, Eralp A, Duzcan E

**Species**  
Human

**Dilution**  
1:50

**Year**  
2009

[View more IHC references on thermofisher.com](#)

### Immunohistochemistry (Paraffin) (1)

Acta histochemica

#### Evidence for CD34/SMA positive cells in the left main coronary artery in atherogenesis.

"MA5-14084 was used in immunohistochemistry - paraffin section to study the evidence of CD34/SMA positive cells in atherogenesis in left main coronary artery"

Authors: Kruzliak P, Hare DL, Sabaka P, Delev D, Gaspar L, Rodrigo L, Zulli A

**Species**  
Not Applicable

**Dilution**  
1:4

**Year**  
2016

### Immunocytochemistry (2)

Cell stem cell

#### G-CSF promotes the proliferation of developing cardiomyocytes in vivo and in derivation from ESCs and iPSCs.

"MA5-14084 was used in immunocytochemistry to investigate the expression level of G-CSFR in vivo and the role of G-CSF during cardiomyogenesis in vitro and in vivo"

Authors: Shimoji K, Yuasa S, Onizuka T, Hattori F, Tanaka T, Hara M, Ohno Y, Chen H, Egasgira T, Seki T, Yae K, Koshimizu U, Ogawa S, Fukuda K

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2010

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