



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



## Mouse anti actin alpha-muscle

Catalogue number: **MUB0107P**

Clone	HHF35
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Chicken Human Monkey Rabbit Rat Swine Zebrafish
Application	Electron microscopy ELISA Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

## Distributors

For Purchasing Information, please contact your local distributor

[Find Distributor](#)

### Background

Among the six actin isoforms described in mammals, two are found in virtually all cells ( $\beta$ - and  $\gamma$ -cytoplasmic), two are detected in smooth muscle cells ( $\alpha$ - and  $\gamma$ -smooth muscle) and two are present in striated muscles, one predominantly in skeletal ( $\alpha$ -skeletal) and one in cardiac ( $\alpha$ -cardiac) muscle cells. These actin isoforms differ slightly in their N-terminus, but the sequence of each of these actins is highly conserved in higher vertebrates. Alpha- muscle actin is present in striated as well as smooth muscle cells, and in pathological tissues derived therefrom. It has for example been detected in several types of muscle derived tumors, and also been shown to appear in stress fibers of fibroblastic cells involved in contractile phenomena such as wound healing and fibrocontractive diseases.

### Source

HHF35 is a Mouse monoclonal IgG1 antibody derived by fusion of NS-1 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with an SDS-extracted protein fraction from Human myocardium.

### Product

Each vial contains 50 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

### **Applications**

HHF35 is useful for immunohistochemistry on frozen and paraffin-embedded tissues preserved in several types of fixatives (see reference 1), immunoblotting, immuno-electron microscopy and ELISA. For immunohistochemical applications to paraffin embedded tissues it is recommended to dilute the antibody in PBS containing 50 mM EDTA. Optimal antibody dilution should be determined by titration; recommended range is 1:200 – 1:1000 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:1000 – 1:5000 for immunoblotting applications.

### **Cross Reactivity**

The epitope recognized by  $\alpha$ -SM1 is highly conserved. The antibody therefore cross-reacts with many species including protochordates, lower craniates and mammals.

### **Specificity**

HHF35 reacts with both  $\alpha$ -muscle and  $\gamma$ -smooth muscle actin, and therefore reacts with skeletal muscle, cardiac muscle, vascular and visceral smooth muscle cells, pericytes and myoepithelial cells. It is also reactive in myofibroblasts. It does not react with epithelial, endothelial, neural or normal connective tissue cells when applied under the proper conditions to these tissue sections.

### **Storage**

Store at 4°C, or in small aliquots at -20°C.

### **References**

1. Tsukada, T., Tippens, D., Gordon, D., Ross, R. and Gown, A.M. (1987). HHF35, a muscle-actin-specific monoclonal antibody. I. Immunocytochemical and biochemical characterization. *American Journal of Pathology* 126, 51-60.
2. Tsukada, T., McNutt, M.A., Ross, R. and Gown, A.M. (1987). HHF35, a muscle-actin-specific monoclonal antibody. II. Reactivity in normal, reactive, and neoplastic Human tissues. *American Journal of Pathology* 127, 389-402.
3. Schmidt, R.A., Cone, R., Haas, J.E. and Gown, A.M. (1988). Diagnosis of rhabdomyosarcomas with HHF35, a monoclonal antibody directed anti muscle actins. *American Journal of Pathology* 131, 19-28.
4. Babaev, V.R., Bobryshev, Y.V., Stenina, O.V., Tararak, E.M. and Gabani, G. (1990). Heterogeneity of smooth muscle in atheromatous plaque of Human aorta. *American Journal of Pathology* 136, 1031-42.
5. Nascimento, C., Caroli-Bottino, A., Paschoal, J. and Pannain, V.L. (2009). Vascular immunohistochemical markers: contributions to hepatocellular nodule diagnosis in explanted livers. *Transplantation Proceedings* 41, 4211-13.

### **Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic

azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.

[Home](#) | [Company Profile](#) | [Catalogue](#) | [Distributors](#) | [Contact](#) |

Content: Nordic-MUbio BV - Copyright © 2015