

# Monoclonal Mouse Antibody Actin, Pan Muscle

## Description:

Immunogen:	N-Terminal decapeptide of alpha smooth muscle isoform of actin (clone 1A4) and of alpha skeletal muscle isoform of actin (clone 5C5.F8.C7)
Clone:	1A4+5C5.F8.C7; (Like HHF35)
Isotype:	IgG <sub>2a</sub> /k(1A4) IgM/k (5C5.F8.C7)
Format:	This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titering is required.
Specificity:	Reacts with $\alpha$ -smooth muscle as well as $\alpha$ -skeletal and $\alpha$ -cardiac (sarcomeric) isoform of actin. ScyTek's A00067 is a pan muscle actin and is useful in identifying tumors arising from smooth muscle (leiomyosarcomas) as well as skeletal muscle (rhabdomyosarcomas). Immunohistochemical staining pattern of this antibody is almost indistinguishable from that of HHF35 Mab.
Positive Control:	Muscle or sarcoma
Cellular Localization:	Cytoplasmic

**Uses/Limitations:** Immunohistochemistry  
For Research Use Only.  
Do not use past expiration date.

**Storage:** 2-8° Centigrade.

**Procedure:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

**Precautions:** Contains Sodium Azide as a preservative.  
Do not pipette by mouth.

**References:** 1.Bochaton-Piallat ML; Gabbiani F; Gabbiani G. Heterogeneity of rat aortic smooth muscle cell replication during development: correlation with replicative activity after experimental endothelial denudation in adults. Journal of Submicroscopic Cytology and Pathology, 1994, 26 (1):1-8.

## Instructions For Use A00067-IFU

Rev. Date: 10/15/03

**Revision: 2**

Page 2 of 2

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

2. Cremona O; Savoia P; Marchisio PC; Gabbiani G; Chaponnier C. The alpha 6 and beta 4 integrin subunits are expressed by smooth muscle cells of human small vessels; a new localization in mesenchymal cells. Journal of Histochemistry and Cytochemistry, 1994, 42 (9):1221-8
3. Estes JM; Vande Berg JS; Adzick NS; MacGillivray TE; Desmouliere A; Gabbiani G. Phenotypic and functional features of myofibroblasts in sheep fetal wounds. Differentiation, 1994, 56 (3):173-81.
4. Orlandi A; Ehrlich HP; Roparz P; Spagnoli LG; Gabbiani G. Rat aortic smooth muscle cells isolated from different layers and at different times after endothelial denudation show distinct biological features in vitro. Arteriosclerosis and Thrombosis, 1994, 14(6):928-9.
5. Orlandi A; Rpraz P; GabbianiG. Proliferative activity and alpha-smooth muscle actin expression in cultrued rat aortic smooth muscle cells are differently modulated by transforming frowth factor-beta 1 and heparin. Wxp Cell Research, 1994, 214:528-36.
6. Schmitt-Graff A; Desmouliere A; Gabbiani G. Heterogeneity of myofibroblast phenotypic features; and example of fibroblastic cell plasticity. Virchows Archiv, 1994, 425(1):3-24.