

## Actin, Pan Muscle

Availability/Contents:	Item #	Volume
	A20067	2 ml
	A00067	6 ml
	A00067.25	25 ml

### Description:


Species:	Mouse
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
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 titration 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.
Species Reactivity:	Human
Positive Control:	Muscle or sarcoma
Cellular Localization:	Cytoplasmic
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.


<b>Uses/Limitations:</b>	For In Vitro Diagnostic Use. This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Do not use past expiration date.
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
<b>Storage and Stability:</b>	2-8° Centigrade. Product is stable for 24 months from date of manufacture. If reagent is not stored as recommended, performance must be validated by the user.
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### Procedure:

1. Tissue Section Pretreatment: Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500) or 10mM citrate buffer, pH 6.0 (ScyTek Catalog# CBB500, see IFU for instructions).
2. Primary Antibody Incubation Time: 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.

Storage: 2°C  8°C

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## Instructions For Use A00067-IFU-IVD

Rev. Date: July 12, 2008

Revision: 1

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3. Visualization: For maximum staining intensity we recommend the "Retrieval HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# RPL125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).


**Precautions:** Contains Sodium Azide as a preservative (0.09% w/v).  
Do not pipette by mouth.  
Avoid contact of reagents and specimens with skin and mucous membranes.  
Avoid microbial contamination of reagents or increased nonspecific staining may occur.  
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

### 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.
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; Gabbiani G. Proliferative activity and alpha-smooth muscle actin expression in cultrued rat aortic smooth muscle cells are differently modulated by transforming growth 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.

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CE

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