

## Actin, Alpha-Smooth Muscle

Availability/Contents:	Item #	Volume
	A20002	2 ml
	A00002	6 ml
	A00002.25	25 ml

### Description:


Species:	Mouse
Immunogen:	N-Terminal decapeptide of alpha smooth muscle is a form of actin; acetylated at the N-terminus and conjugated to KLH at the C-terminus.
Clone:	1A4
Isotype:	IgG <sub>2a</sub> /K
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 is required.
Specificity:	Recognizes the $\alpha$ -smooth muscle isoform of actin. It shows no cross reaction with actin from fibroblasts ( $\beta$ - and $\gamma$ -cytoplasmic), striated muscle ( $\alpha$ -sarcometric), and myocardium ( $\alpha$ -myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of $\alpha$ -smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin. This Mab is reportedly useful for identifying tumors arising from smooth muscle and myoepithelial cells.
Species Reactivity:	Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken; Others-not known.
Positive Control:	Blood vessels.
Cellular Localization:	Cytoplasmic
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.


**Uses/Limitations:** 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.




**Storage and Stability:** 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.

### Procedure:

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

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## Instructions For Use A00002-IFU-IVD

Rev. Date: July 7, 2008

Revision: 1


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24. For further references contact the Customer Service Department of ScyTek Laboratories, Inc.

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