

Actin, Smooth Muscle Ab-1

Catalog # MS-113-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 40ug/ml)

Catalog # MS-113-R7 (7.0ml)

Catalog # MS-113-RQ (12.0ml)

Catalog # MS-113-PCS

Please note this data sheet has been changed effective December 6, 2011

INTENDED USE:

- **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.
- **Description:** Ab-1 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained. This antibody reacts with tumors arising from smooth muscles and myoepithelial cells. Use Actin Ab-5 (Cat# MS-1295-P) and/or Tubulin Ab-4 (Cat# MS-719-P) for monitoring total protein load on Western blots.
- **Expected Staining Pattern:** Cytoplasmic
- **Positive Control:** Smooth muscle or leiomyosarcoma

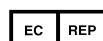
MATERIALS PROVIDED:

Actin, Smooth Muscle Ab-1 (refer to catalog number):

- #MS-113-P (or -P0, -P1): 40ug/ml of antibody purified from ascites. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
or
- #MS-113-R7: (7.0ml) of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide.
or
- #MS-113-RQ: (12.0ml) of antibody prediluted in 0.025mol/L Tris-HCl, pH 7.4 ±0.1 containing stabilizing protein and 0.015mol/L sodium azide.
or
- #MS-113-PCS: 5 positive control slides.
- **Antibody Concentration:** 40ug/ml
- **Host:** Mouse
- **Epitope:** Acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of alpha-smooth actin.
- **Species Reactivity:** Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken; Others-not known.
- **Clone Designation:** 1A4 ; also known as asm-1
- **Ig Isotype / Light Chain:** IgG2a / kappa
- **Immunogen:** N-Terminal decapeptide of alpha smooth muscle isoform of actin; acetylated at the N-terminus.
- **Microbiological State:** This product is not sterile.

MATERIALS REQUIRED, BUT NOT PROVIDED:

- **Antibody Diluent:** For concentrated antibodies, the antibody must be diluted before using. Use Lab Vision Antibody Diluent (catalog # TA-125-UD). Refer to diluent product instructions for use.
- **Negative Control Reagent:** Refer to the "General Protocol" instructions.
- **Visualization System:** Refer to the "General Protocol" instructions.



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METHODS AND PROCEDURES:

Using UltraVision LP Detection Systems	
Specimen Preparation	Refer to the "General Protocol" instructions.
Dilution of Concentrated Antibody	1:800 in antibody diluent
Tissue Section Pretreatment	No special pretreatment is required for immuno-histochemistry of formalin-fixed tissues.
Primary Antibody Incubation Time	20 minutes at Room Temperature
Visualization	To detect antibody, use a high-sensitivity detection system such as UltraVision LP Detection System (Cat# TL-015) and follow the instructions provided with the visualization system.
Staining Tips	If the staining is too light, use lower dilution or longer time. If the staining is too strong, use higher dilution or shorter time.

Using UltraVision Quanto Detection Systems	
Specimen Preparation	Refer to the "General Protocol" instructions.
Dilution of Concentrated Antibody	1:800 in antibody diluent
Tissue Section Pretreatment	Staining of formalin-fixed tissue sections requires treating the tissue sections in boiling 1mM EDTA buffer, pH 8.0 (<i>Lab Vision</i> Catalog # AP-9004), for 10-20 minutes followed by cooling at room temperature for 20 min.
Primary Antibody Incubation Time	20 minutes at Room Temperature
Visualization	To detect antibody, use a high-sensitivity detection system such as UltraVision Quanto Detection System (Cat# TL-XXX-QHD) and follow the instructions provided with the visualization system.
Staining Tips	If the staining is too light, use lower dilution or longer time. If the staining is too strong, use higher dilution or shorter time.

STORAGE and STABILITY:

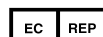
This product contains sodium azide and is stable for 24 months when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.

REFERENCES:

- 1) Skalli O et. al. Journal of Cell Biology, 1986, 103:2787-96.



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