

## Actin, Smooth Muscle (Clone 1A4)

### Specification:

Actin is a major component of the cytoskeleton and is present in every cell type. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Smooth Muscle Actin Ab does not stain cardiac or skeletal muscle, however, it will stain myofibroblasts and myoepithelial cells. This antibody could be used together with Muscle Specific Actin to distinguish leiomyosarcoma from rhabdomyosarcoma. In most cases of rhabdomyosarcoma, this antibody gives negative results whereas M. S. Actin is positive in the rhabdomyoblasts. Leiomyosarcomas are positive with both M. S. Actin and S. M. Actin antibodies.

### Availability:

Catalog No.	Contents	Volume
ILM 20211 C1	Actine	1,0 ml

**Intended use:** For research use only

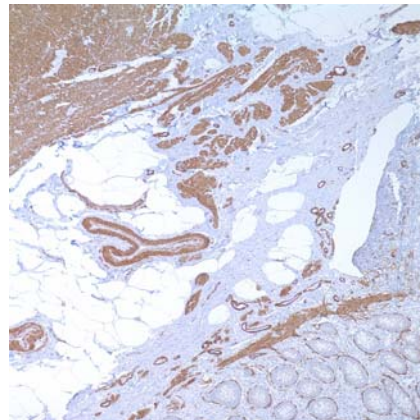
**Clone:** 1A4

**Species of origin:** Mouse

**Isotype:** IgG/K

**Controle Tissue:** Appendix, uterus, vessel wall

**Staining:** Cytoplasmic



### Presentation:

Anti-Actin, Smooth Muscle is a mouse monoclonal antibody from supernatant diluted in phosphate buffer saline, pH 7.4, with protein base, and preserved with sodium azide.

### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer , pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of cryostat tissue sections (dilution up to 1:100-1:500)
- Immunohistochemical staining of formaline-fixed, paraffin embedded tissue section (dilution up to 1:100-1:500)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilute the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody based detection is recommended

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

### References:

- 1) Cooke, PH., J Cell Biol. 1976; 68:539-556
- 2) Skalli, O., et al., J Cell Biol. 1986; 103:2787-2796
- 3) Gown, AM. et al., J Cell Biol. 1985; 100:807-813
- 4) Kuroda, M., Biochem Biophys Acta 1985; 843:20-213
- 5) Lazarides, E., J Histochem Cytochem 1975; 223:507-528