

## Actin, Skeletal Muscle Ab-2 (clone 5C5.F8.C7 or $\alpha$ -Sr-1)

### Mouse Monoclonal Antibody

Cat. #MS-185-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200 $\mu$ g/ml) (Purified Ab with BSA and Azide)

Cat. #MS-185-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-185-PCS (5 Slides) (Positive Control for Histology)

**Comments:** 5C5.F8.C7 MAb is highly specific and shows no cross-reaction with smooth muscle actin. This antibody reacts with sarcomeric actins of normal tissues and neoplasms derived from such tissues (i.e. rhabdomyosarcomas).

**Epitope:** N-terminal decapeptide

**Species Reactivity:** Human, Cow, Rabbit, Sheep, Rat, Guinea pig, Frog. Others-not known.

**Clone Designation:** 5C5.F8.C7 (or  $\alpha$ -Sr-1)

**Ig Isotype / Light Chain:** IgM /  $\kappa$

**Immunogen:** N-Terminal decapeptide of alpha skeletal muscle isoform of actin; acetylated at the N-terminus.

### Applications and Suggested Dilutions:

- Immunofluorescence
- Immunohistology (Formalin/paraffin) (Ab 1:200 for 20 minutes at RT using the LP system, for 30 minutes at RT using the UltraVision or UltraVision ONE detection systems)

\* [No special pretreatment is required for the immunohistochemical staining of formalin/paraffin tissues.]

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

- **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.

### Positive Control:

Skeletal or Cardiac muscle, or Rhabdomyosarcoma

**Cellular Localization:** Cytoplasmic

### Supplied As:

200 $\mu$ g/ml antibody purified from the ascites fluid by ammonium sulfate precipitation and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide,

or  
Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

### Storage and Stability:

Store vial at 4°C. When stored at 2-8°C, it is stable for 24 months. THIS ANTIBODY LOSES ACTIVITY UPON FREEZING.

### Key References:

1. Skalli O; et al. (1988) Am J Path, 130:515-531
2. Schurch W, et al. (1987) Am J Path, 128:91-103
3. Cintonino M, et al. (1989) j Submicrosc Cytol Pathol, 21:409-419

### Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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