

alpha smooth muscle Actin Rabbit mAb

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|-------------------------|-------------------|----------------------|-----------------------|
| Catalog No. | A17910 | Category | Monoclonal Antibodies |
| Applications | WB, IHC, IF | Observed MW | 42kDa |
| Cross-reactivity | Human, Mouse, Rat | Calculated MW | 42kDa |

Immunogen Information

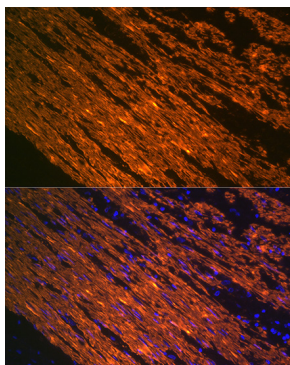
| | |
|-------------------|--|
| Immunogen | A synthesized peptide derived from human alpha smooth muscle Actin |
| Gene ID | 59 |
| Swiss prot | P62736 |
| Synonyms | AAT6;ACTSA;MYMY5;ACTA2;actin |

Product information

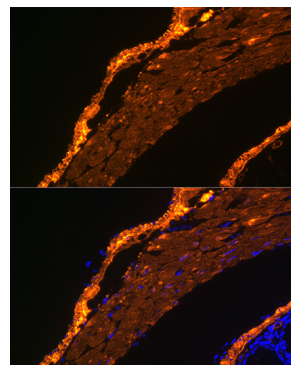
| | |
|----------------------------|--|
| Source | Rabbit |
| Isotype | IgG |
| Purification method | Affinity purification |
| Storage | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

Background

The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008]



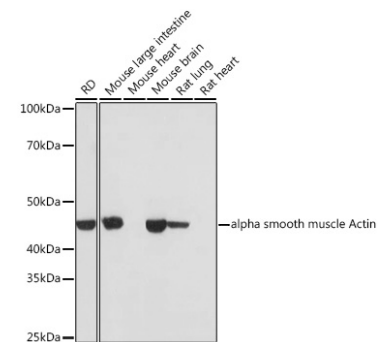
Immunofluorescence analysis of smooth muscle of human colon carcinoma using alpha smooth muscle Actin Rabbit mAb (A17910) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse colon using alpha smooth muscle Actin Rabbit mAb (A17910) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Recommended Dilutions

| | |
|-----|----------------|
| WB | 1:500 - 1:2000 |
| IHC | 1:50 - 1:200 |
| IF | 1:50 - 1:200 |

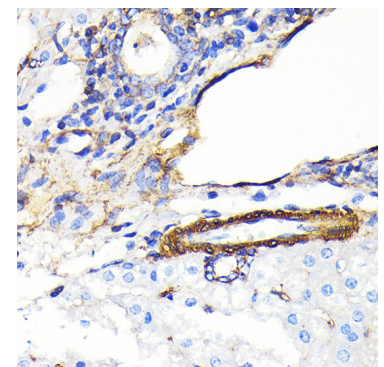


Western blot analysis of extracts of various cell lines, using alpha smooth muscle Actin antibody (A17910) at 1:1000 dilution.

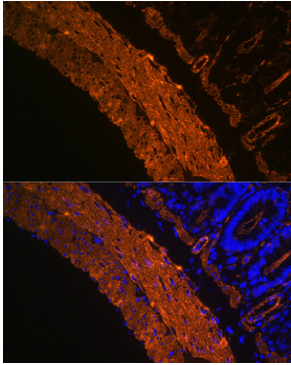
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunohistochemistry of paraffin-embedded mouse liver using alpha smooth muscle Actin Rabbit mAb (A17910) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of rat colon using alpha smooth muscle Actin Rabbit mAb (A17910) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.