

# Alpha-Smooth Muscle Actin Monoclonal Antibody (4A4)

| Product Details    |  |
|--------------------|--|
| Size               | 100 µL   |
| Species Reactivity | Human, Mouse, Non-human primate, Rat   |
| Published Species  | Human  |
| Host/Isotype       | Mouse / IgG1   |
| Class              | Monoclonal   |
| Type               | Antibody   |
| Clone              | 4A4  |
| Conjugate          | Unconjugated   |
| Immunogen          | Synthesized peptide of human ACTA2.  |
| Form               | Liquid   |
| Concentration      | Conc. Not Determined   |
| Storage buffer     | ascites  |
| Contains           | 0.03% sodium azide   |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID               | AB_11151920  |

| Applications                              | Tested Dilution | Publications  |
|---|-----------------|---------------|
| Western Blot (WB)                         | 1:500-1:2,000   | -             |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:200-1:1,000   | -             |
| Immunocytochemistry (ICC/IF)              | 1:200-1:1,000   | 1 Publication |
| Flow Cytometry (Flow)                     | 1:200-1:400     | -             |
| ELISA (ELISA)                             | 1:10,000        | -             |

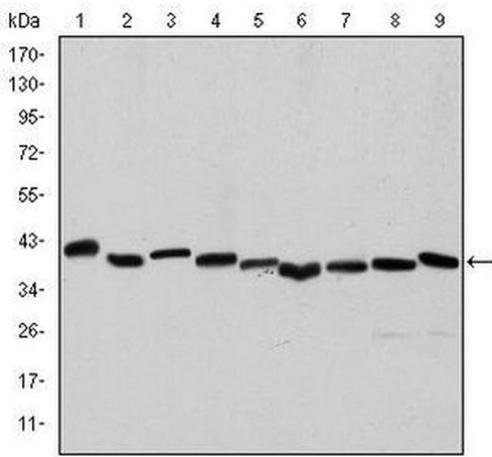
## Product Specific Information

MA5-15871 targets ACTA2 in indirect ELISA, FACS, IF, IHC, and WB applications and shows reactivity with Human, mouse, Non-human primate, and Rat samples.

The MA5-15871 immunogen is synthesized peptide of human ACTA2. .

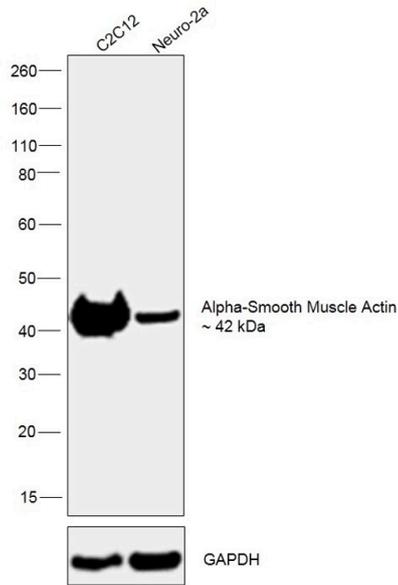
MA5-15871 detects ACTA2 which has a predicted molecular weight of approximately 42kDa.

## Product Images For Alpha-Smooth Muscle Actin Monoclonal Antibody (4A4)



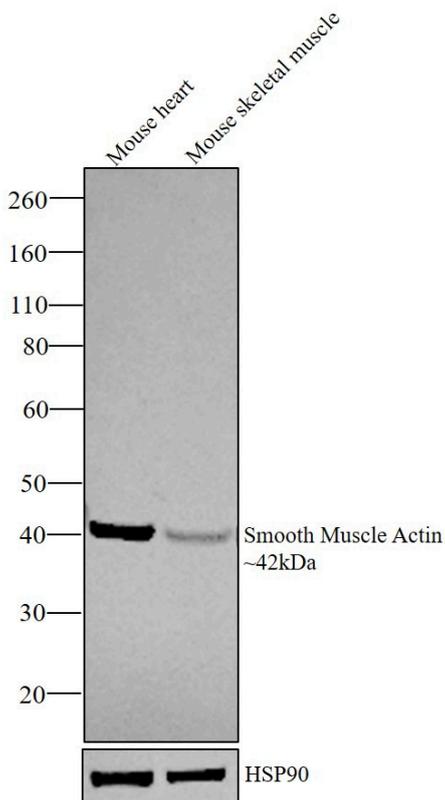
### Alpha-Smooth Muscle Actin Antibody (MA5-15871) in WB

Western blot analysis of ACTA2 using ACTA2 monoclonal antibody (Product # MA5-15871) in HeLa (1), A431 (2), Jurkat (3), K562 (4), HEK293 (5), HepG2 (6), NIH/3T3 (7), PC-12 (8) and COS-7 (9) cell lysate.



### Alpha-Smooth Muscle Actin Antibody (MA5-15871)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models tested owing to their inherent genetic constitution. Relative expression of Alpha-Smooth Muscle Actin was observed in C2C12 in comparison to Neuro-2a to adipocytes using Alpha-Smooth Muscle Actin Monoclonal Antibody (Product # MA5-15871). {RE}



### Alpha-Smooth Muscle Actin Antibody (MA5-15871)

Relative expression of target protein demonstrates antibody specificity. Western blot analysis of Smooth muscle Actin using Smooth Muscle Actin Monoclonal Antibody (4A4) (Product # MA5-15871) shows higher expression in Mouse heart, as compared to low expression in Mouse skeletal muscle. {RE}

View more figures on [thermofisher.com](http://thermofisher.com)

## 1 Reference

### Immunocytochemistry (1)

#### Genome medicine

#### Restoration of mesenchymal retinal pigmented epithelial cells by TGF pathway inhibitors: implications for age-related macular degeneration.

"MA5-15871 was used in Immunocytochemistry to demonstrate that in RPE cells, switching to a mesenchymal state following prolonged wound stimulus is driven by TGF pathway activation."

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Year  
2015

Species  
Human

Dilution  
1:500

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