# Product Data Sheet
# α-Smooth Muscle Actin (ACTA2) Rabbit Polyclonal Antibody

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| **Product name:** | α-Smooth Muscle Actin (ACTA2) Rabbit Polyclonal Antibody |
| **Cat number:** | AB-84750 |
| **Conjugate:** | Unconjugated |
| **Size:** | 100 ug |
| **Clone:** | POLY |
| **Concentration:** | 1mg/ml |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Immunogen:** | Recombinant fusion protein containing a sequence corresponding to amino acids 1-124 of human α-Smooth Muscle Actin (ACTA2). |
| **Reactivity:** | Human, Mouse, Rat |
| **Applications:** | Western Blot: 1:500 - 1:1000 Immunohistochemistry (paraffin-embedded tissues) 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200 Immunocytochemistry: 1:50 - 1:200 |
| **Molecular Weight:** | 42KDa |
| **Purification:** | Affinity purification |
| **Form:** | Liquid |
| **Buffer:** | PBS with 0.05% proclin300,50% glycerol,pH7.3. |
| **Storage:** | Store at -20℃. Avoid freeze / thaw cycles. |
| **Synonyms:** | ACTSA |
| **Background:** | This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a smooth muscle actin that is involved in vascular contractility and blood pressure homeostasis. Mutations in this gene cause a variety of vascular diseases, such as thoracic aortic disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome. |

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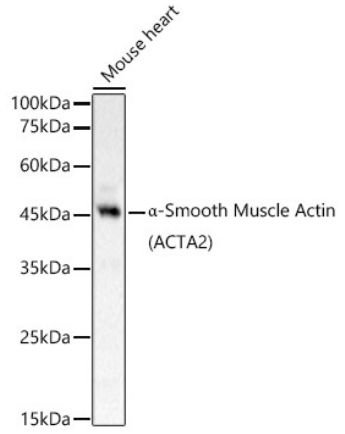
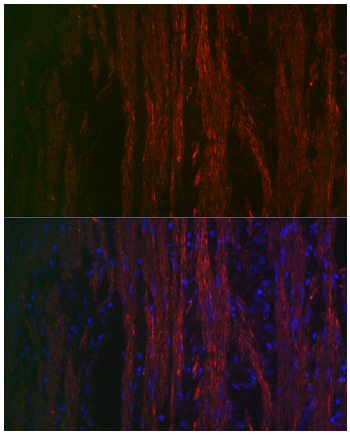
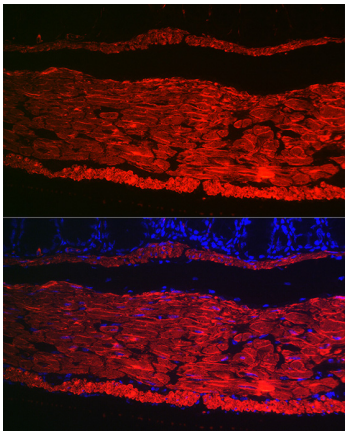


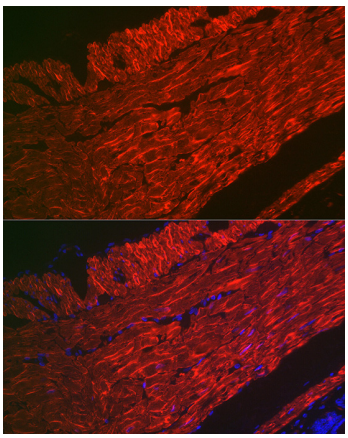

Western blot analysis of Mouse heart, using α-Smooth Muscle Actin (ACTA2) antibody at 1:800 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 10s.



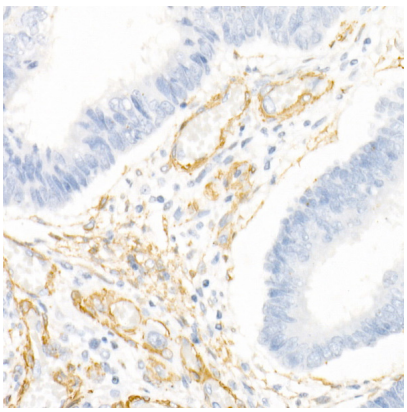
Immunofluorescence analysis of human smooth muscle cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



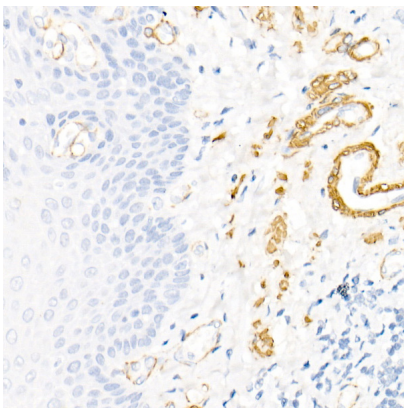
Immunofluorescence analysis of mouse colon cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



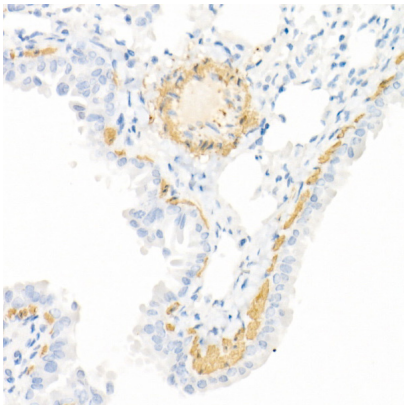
Immunofluorescence analysis of rat rectum cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



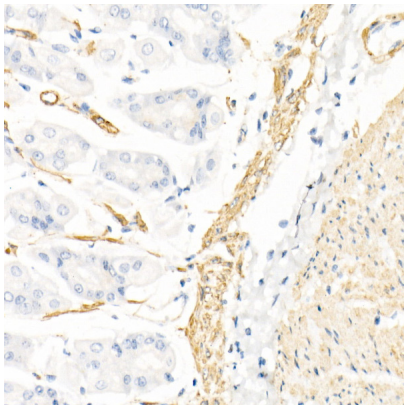
Immunohistochemistry of paraffinembedded human colon carcinoma using α-Smooth Muscle Actin Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



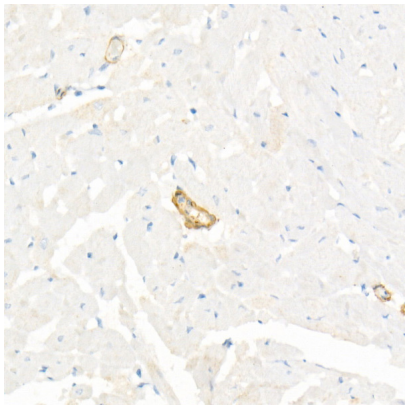
Immunohistochemistry of paraffinembedded human esophagus using α- Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



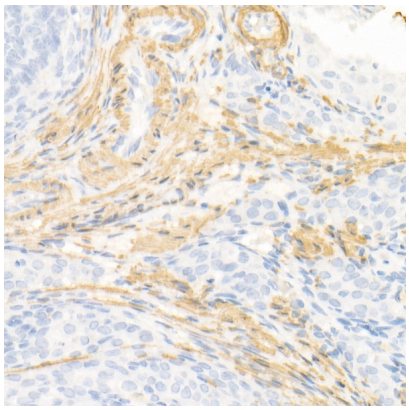
Immunohistochemistry of paraffinembedded mouse lung using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffinembedded mouse stomach using α- Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffinembedded Rat heart using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffinembedded rat ovary using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.