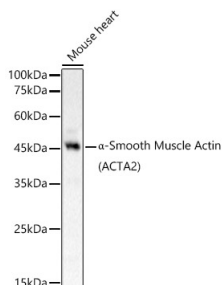
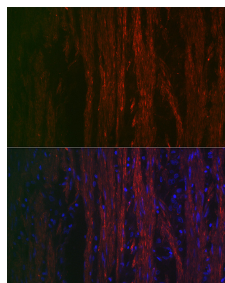


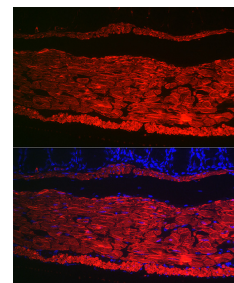
Cat. No:	AB-84750
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-124 of human α-Smooth Muscle Actin (ACTA2).
Reactivity:	Human, Mouse, Rat
Applications:	Western 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
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.
Form:	Liquid
Buffer:	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.



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.



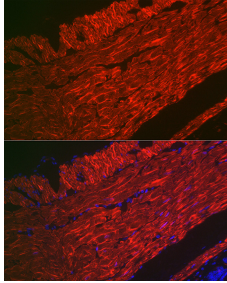
Immunofluorescence analysis of human smooth muscle cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



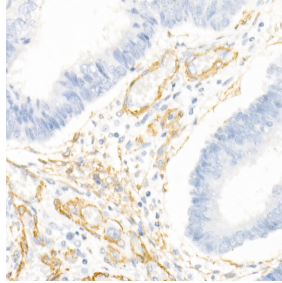
Immunofluorescence analysis of mouse colon cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

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

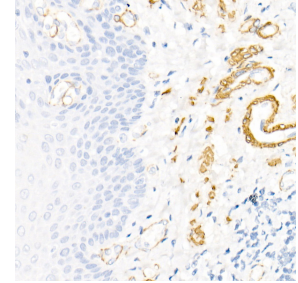
Detection: ECL West Pico Plus.
Exposure time: 10s.



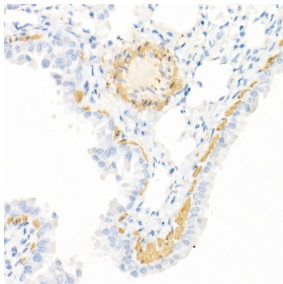
Immunofluorescence analysis of rat rectum cells using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



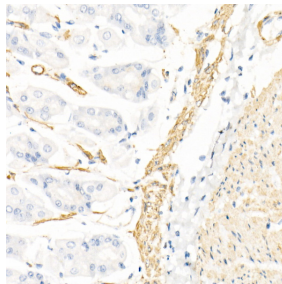
Immunohistochemistry of paraffinembedded human colon carcinoma using α-Smooth Muscle Actin Rabbit pAb at dilution of 1:20 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



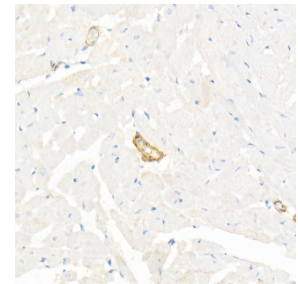
Immunohistochemistry of paraffinembedded human esophagus using α- Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



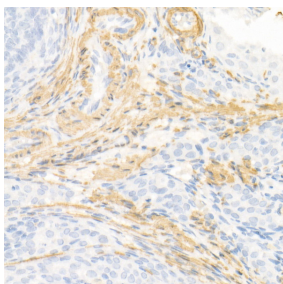
Immunohistochemistry of paraffinembedded mouse lung using α-Smooth Muscle Actin (ACTA2) Rabbit pAb at dilution of 1:20 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



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.

References:

References for α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Product:α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Journal:Acta Pharmacologica Sinica

Application:WB

IF:6.15

Species:Homo sapiens,Mus musculus

PMID:31804606

Title:Ganoderic acid hinders renal fibrosis via suppressing the TGF-β/Smad and MAPK signaling pathways

References for α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Product:α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Journal:Pharmacological Research

Application:WB

IF:7.658

Species:Mus musculus

PMID:32151678

Title:Cardamonin retards progression of autosomal dominant polycystic kidney disease via inhibiting renal cyst growth and interstitial fibrosis

References for α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Product:α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Journal:Oncotarget

Application:IF, IHC

IF:3.765

Species:Mus musculus

PMID:28915589

Title:Casticin Attenuates Liver Fibrosis and Hepatic Stellate Cell Activation by Blocking TGF-β/Smad Signaling Pathway.

References for α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Product:α-Smooth Muscle Actin (ACTA2) Rabbit pAb

Journal:Parasit Vectors

Application:WB

IF:3.876

Species:Mus musculus

PMID:34521449

Title:MicroRNA-497 induced by Clonorchis sinensis enhances the TGF-β/Smad signaling pathway to promote hepatic fibrosis by targeting Smad7

**For Research use only
IMMUNOLOGICAL SCIENCES**