For Research Use Only

smooth muscle actin Polyclonal antibody

Catalog Number:23081-1-AP

31 Publications

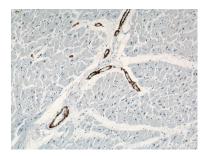


Basic Information	Catalog Number: 23081-1-AP Size: 150ul, Concentration: 300 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG19481	UNIPROT ID: P62736 Full Name:	smooth muscle, aorta /:	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:1000
Applications	Tested Applications: WB, IP, IHC, ELISA Cited Applications: WB, IF, IHC Species Specificity: human, mouse, rat Cited Species: human, rat, mouse Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alternation retrieval may be performed w buffer pH 6.0	mouse kidne skeletal mus IP : mouse he IHC : human tissue, human stromal tumo stromal tumo tively, antigen human skele		eart tissue, mouse brown adipose tissue, y tissue, mouse liver tissue, mouse cle tissue, rat heart tissue
Background Information	ACTA2 (also known as a-smooth muscle actin or a-SMA) belongs to the actin family. Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ACTA2 is primarily expressed in vascular smooth muscle and anti-ACTA2 is commonly used to marker smooth muscle cells. This antibody is specific to the ACTA2. It selectively stains the vascular smooth muscle but not cardiac or skeletal muscle.			
Notable Publications	Author Pu	Ibmed ID	Journal	Application
		968047	Nat Commun	IF
	Yong He 25	201080	Biochim Biophys Act	a WB
	Jing Guo 28	902355	Int J Oncol	IHC
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year at Storage Buffer: PBS with 0.02% sodium azide and 5 Aliquoting is unnecessary for -20°C	0% glycerol pH 7	.3.	

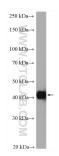
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

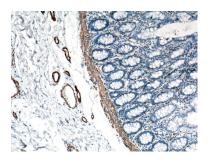
Selected Validation Data



Immunohistochemical analysis of paraffinembedded human heart using 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:500 (under 10x lens).



mouse heart tissue were subjected to SDS PAGE followed by western blot with 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



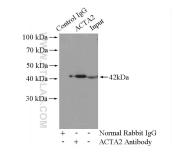
Immunohistochemical analysis of paraffinembedded human colon tissue slide using 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:6400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:3200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human heart using 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:500 (under 40x lens).



IP result of anti-smooth muscle actin (IP:23081-1-AP, 4ug; Detection:23081-1-AP 1:1000) with mouse heart tissue lysate 3200ug.