For Research Use Only

smooth muscle actin Polyclonal antibody

Catalog Number:23081-1-AP

31 Publications



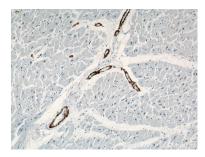
Basic Information	Catalog Number: 23081-1-AP	GenBank Accession Number: BC017554		Purification Method: Antigen affinity purification	
	Size:GeneID (NCBI):300 μ g/ml59Source:UNIPROT ID:RabbitP62736Isotype:Full Name:IgGactin, alpha 2, smooth muscle, ao):	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:1000	
	Immunogen Catalog Number: AG19481		Calculated MW: 377 aa, 42 kDa		
		Observed MW			
		42 kDa			
Applications	Tested Applications:		Positive Con	trols:	
	IHC, IP, WB,ELISA		WB : mouse h	WB : mouse heart tissue, mouse brown adipose tissue	
	Cited Applications: WB,IHC,IF Species Specificity: human, mouse, rat Cited Species: human, rat, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		mouse kidne	mouse kidney tissue, mouse liver tissue, mouse skeletal muscle tissue, rat heart tissue	
			IP: mouse he	IP : mouse heart tissue,	
			IHC : human	IHC : human heart tissue, mouse skeletal muscle tissue, human colon tissue, human liver cancer tissu stromal tumor tissue, human hysteromyoma tissue, human liver tissue, human small intestine tissue, human skeletal muscle tissue	
Background Information	proteins that are involved in var ACTA2 is primarily expressed in	ious types of cell m vascular smooth m	otility and are ubiquito uscle and anti-ACTA2	actin family. Actins are highly conserved ously expressed in all eukaryotic cells. is commonly used to marker smooth ne vascular smooth muscle but not cardi	
Notable Publications	Author	Pubmed ID	Journal	Application	
	Jan Krivanek	32968047	Nat Commun	IF	
	Yong He	25201080	Biochim Biophys Ac	ta WB	
	Jing Guo	28902355	Int J Oncol	IHC	
Storage	Storage: Store at -20°C. Stable for one yea	ar after shipment.			

Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage

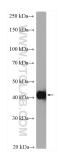
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

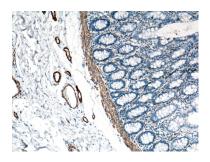
Selected Validation Data



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.



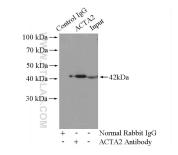
Immunohistochemical analysis of paraffinembedded human colon tissue slide using 23081-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:6400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.