## Alpha smooth muscle actin Polyclonal antibody

Catalog Number:14395-1-AP

**Featured Product** 

**1309** Publications



<b>Basic Information</b>	Catalog Number: GenBank Accession Number: 14395-1-AP BC017554		cession Number:	Purification Method: Antigen affinity purification		
	Concentration: GeneID (N		31):	Recommended Dilutions: WB 1:2000-1:12000		
	750 ug/ml Source:	59 UNIPROT ID	59 UNIPROT ID: P62736 Full Name: actin, alpha 2, smooth muscle, aorta Calculated MW: 377 aa, 42 kDa Observed MW: 42 kDa		WB 1:2000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1500-1:6000 IF-P 1:50-1:500 IF-Fro 1:200-1:800 IF/ICC 1:800-1:3200	
	Rabbit					
	lsotype: IgG					
	Immunogen Catalog Number: AG5886					
Applications	WB, IHC, IF/ICC, IF-P, IF-Fro, FC (Intra), IP, ELISA WB : moust   Cited Applications: cells, HUV   WB, IHC, IF, CoIP, competitive binding assay rat heart ti   Species Specificity: tissue   human, mouse, rat IP : mouse		Positive Cont			
			cells, HUVEC			
			tissue			
				ouse liver tissue,		
	human, mouse, rat, pig, rabbit, canine, monkey, hu		human colon	C : human liver cancer tissue, human heart tissue, Iman colon tissue, human hysteromyoma tissue, romal tumor tissue, human appendicitis tissue,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			mouse colon tissue		
			II - F . IIIOUSE I	IF-P: mouse heart tissue, mouse small intestine tissu		
				IF-Fro : mouse colon tissue, IF/ICC : C2C12 cells, H9C2 cells		
				2 נפונא, האָכ 2 נפוני	5	
Background Information	ACTA2 (also known as a -smootl proteins that are involved in vari ACTA2 is primarily expressed in muscle cells. This antibody may	ious types of cell ı vascular smooth	notility and are ubiquito muscle and anti-ACTA2 i	usly expressed in	all eukaryotic cells.	
Notable Publications	Author	Pubmed ID Journal			Application	
	Mengru Xie	32999278	Int J Oral Sci		WB,IF	
	Aipeng Deng	33321619	Mater Sci Eng C Mater	Biol Appl	IF	
	Hui-Fang Wang	28970011	Eur J Pharmacol		WB,IF	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -2C	nd 50% glycerol, p	H7.3			

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.

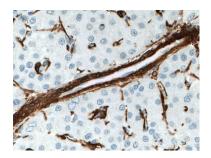
## Selected Validation Data



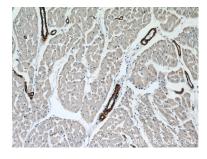
Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using smooth muscle actin antibody (14395-1-AP) at dilution of 1:1600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



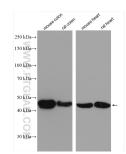
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:3000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



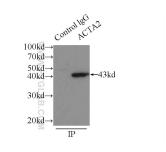
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:3000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



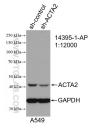
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody at dilution of 1:5000 (under 10x lens).



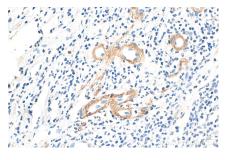
Various lysates were subjected to SDS PAGE followed by western blot with 14395-1-AP (smooth muscle actin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP result of anti-smooth muscle actin (IP:14395-1-AP, 3ug; Detection:14395-1-AP 1:1000) with mouse liver tissue lysate 6000ug.



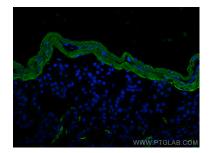
WB result of smooth muscle actin antibody (14395-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-smooth muscle actin transfected A549 cells.

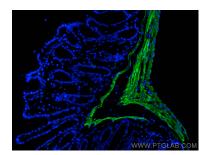


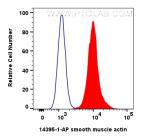
Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using 14395-1-AP (smooth muscle actin antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 14395-1-AP (smooth muscle actin antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).







Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using smooth muscle actin antibody (14395-1-AP) at dilution of 1:4000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse colon tissue using smooth muscle actin antibody (14395-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). 1x10^6 C2C12 cells were intracellularly stained with 0.4 ug smooth muscle actin Polyclonal antibody (14395-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).