Alpha smooth muscle actin Polyclonal antibody

Catalog Number: 14395-1-AP

Featured Product

1300 Publications

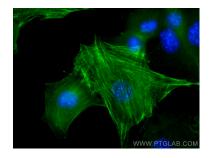


Basic Information	Catalog Number: 14395-1-AP	GenBank Accession Number: BC017554		Purification Meth Antigen affinity					
	Size:	GeneID (NCBI): 59 UNIPROT ID: P62736 Full Name: actin, alpha 2, smooth muscle, aorta Calculated MW: 377 aa, 42 kDa Observed MW:		Recommended Dilutions: WB 1:2000-1:12000 IP 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					
	150ul , Concentration: 750 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5886								
						IF/ICC 1:800-1:3200			
						42 kDa			
				Applications			Positive Cont	Positive Controls: WB : mouse colon tissue, human placenta tissue, A549 cells, HUVEC cells, rat colon tissue, mouse heart tissue rat heart tissue, mouse liver tissue, mouse kidney tissue	
					WB, IHC, IF/ICC, IF-P, FC (Intra), IP, E	LISA WB : mouse co			
					Cited Applications: WB, IHC, IF, CoIP, competitive binding assay Species Specificity: human, mouse, rat				
IP : mouse live	IP : mouse liver tissue,								
Cited Species: human, mouse, rat, pig, rabbit, canine, monkey, zebrafish, bovine, sheep			IHC : human liver cancer tissue, human heart tissue, human colon tissue, human hysteromyoma tissue, stromal tumor tissue, human appendicitis tissue, mouse colon tissue						
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen									
retrieval may be performed w			IF-P : mouse heart tissue, mouse small intestine tiss						
buffer pH 6.0		IF/ICC : C2C1	IF/ICC : C2C12 cells, H9C2 cells						
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 may cross-react with other isoforms of actins.								
Notable Publications	Author Put	omed ID J	Iournal	al					
	Mengru Xie 329	999278 I	nt J Oral Sci		WB,IF				
	Aipeng Deng 333	321619 N	Mater Sci Eng C Mater	Biol Appl	IF				
	Hui-Fang Wang 289	970011 E	Eur J Pharmacol		WB,IF				

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.

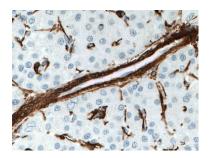
Selected Validation Data



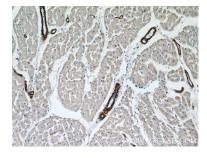
Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using smooth muscle actin antibody (14395-1-AP) at dilution of 1:1600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



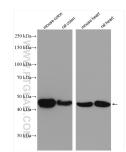
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:3000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



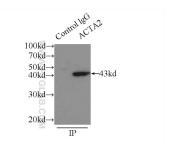
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody) at dilution of 1:3000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



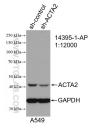
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 14395-1-AP (ACTA2/smooth muscle actin antibody at dilution of 1:5000 (under 10x lens).



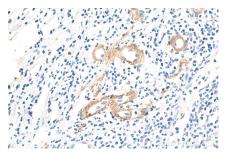
Various lysates were subjected to SDS PAGE followed by western blot with 14395-1-AP (smooth muscle actin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



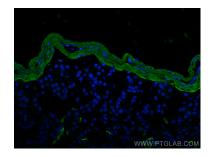
IP result of anti-smooth muscle actin (IP:14395-1-AP, 3ug; Detection:14395-1-AP 1:1000) with mouse liver tissue lysate 6000ug.



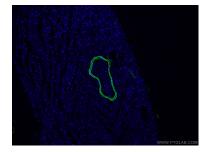
WB result of smooth muscle actin antibody (14395-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-smooth muscle actin transfected A549 cells.

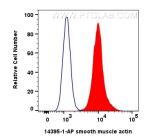


Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using 14395-1-AP (smooth muscle actin antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse 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 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). 1x10^6 C2C12 cells were intracellularly stained with 0.4 µg 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 µg Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).