For Research Use Only

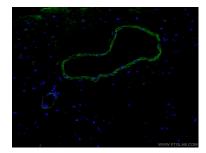
Alpha smooth muscle actin specific Polyclonal antibody Catalog Number:55135-1-AP 275 Publications



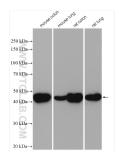
Basic Information	Catalog Number: 55135-1-AP	GenBank A NM_00161	ccession Number: 3	Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NO	CBI):	Recommended Dilutions:	
	1000 ug/ml	59		WB 1:500-1:4000 IHC 1:500-1:3000 IF-P 1:50-1:500	
	Source: Rabbit	UNIPROT II P62736	D:		
	lsotype: IgG		Full Name: actin, alpha 2, smooth muscle, aorta Calculated MW: 42 kDa Observed MW: 42 kDa		
Applications	Cited Applications:stomach, rat colon, mouse lung, rat luWB, IHC, IFIHC : mouse heart tissue, human coloSpecies Specificity:colon cancer tissue, human heart tisshuman, mouse, rathepatocirrhosis tissue, human liver color		Positive Co	ontrols:	
				WB : mouse colon tissue, mouse kidney tissue, mouse stomach, rat colon, mouse lung, rat lung	
				IHC : mouse heart tissue, human colon tissue, human colon cancer tissue, human heart tissue, human hepatocirrhosis tissue, human liver cancer tissue, mouse colon tissue, mouse liver tissue, rat colon tissue	
			mouse colo		
			e heart tissue,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	ACTA2, also named as a-SMA,AAT6;ACTSA 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. Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6). The immunogen of this antibody is a specific domain of ACTA2. This antibody stains the aorta only.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yuan Gao	33173749	Adv Sci (Weinh)	IF	
	Wei Wang	32976932	Cell Signal	IF	
	H-J Wang	32959695	Hum Exp Toxicol	WB	

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

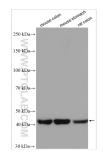
Selected Validation Data



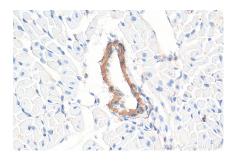
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 55135-1-AP (Alpha SMAspecific antibody) at dilution of 1:200 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



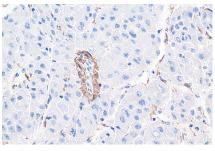
Various lysates were subjected to SDS PAGE followed by western blot with 55135-1-AP (smooth muscle actin-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



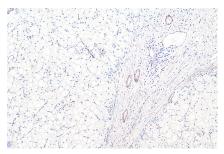
Various lysates were subjected to SDS PAGE followed by western blot with 55135-1-AP (smooth muscle actin specific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 55135-1-AP (smooth muscle actin specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 55135-1-AP (smooth muscle actin specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 55135-1-AP (smooth muscle actin specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).