For Research Use Only

Alpha Tubulin Polyclonal antibody

Catalog Number: 11224-1-AP

497 Publications



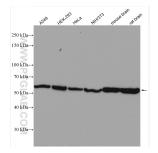
Basic Information	Catalog Number: 11224-1-AP	GenBank Accession Number: BC009314		Purification Method: Antigen affinity purification
	Size:	GenelD (NCBI): 10376		Recommended Dilutions: WB 1:2000-1:15000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB IHC 1:20-1:200 IF 1:50-1:500
	150ul, Concentration: 400 µg/ml by			
	Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;			
	Source: Rabbit			
	lsotype: IgG	Observed MW: 50-55 kDa		
	Immunogen Catalog Number: AG1727			
Applications	Tested Applications:		Positive Controls:	
	FC, IF, IHC, IP, WB,ELISA		WB: A549 cel	ls, HEK-293 cells
	Cited Applications: CoIP, IF, IHC, IP, WB		IP : HeLa cells,	
	Species Specificity: human, mouse, rat			olon cancer tissue, human endometria human liver cancer tissue
			ls, HepG2 cells, Lymphatic endothelia	
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	There are five tubulins in human cells: alpha, beta, gamma, delta, and epsilon. Tubulins are conserved across species. They form heterodimers, which multimerize to form a microtubule filament. An alpha and beta tubulin heterodimer is the basic structural unit of microtubules. The heterodimer does not come apart once formed. The alpha and beta tubulins, which are each about 55 kDa MW, are homologous but not identical. Alpha tubulin is usefu for scientists across fields as an internal control due to its high, ubiquitous expression pattern. Tubulin expression may vary according to resistance to antimicrobial and antimitotic drugs.			
Notable Publications	Author Pub	omed ID Journ	al	Application
	Dan-Qian Chen 330	062239 Ther A	dv Chronic Dis	WB
	Guangxin Lv 291	L52140 Oncot	arget	WB
	Xujuan Sun 276	697636 Biome	ed Pharmacothe	r
Storage	Storage:			

Aliquoting is unnecessary for -20 $^{\circ}\mathrm{C}$ storage

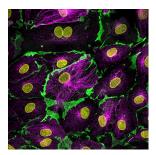
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

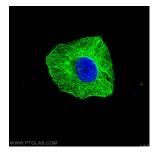
Selected Validation Data



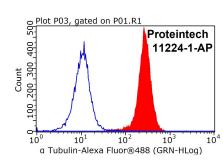
Various lysates were subjected to SDS PAGE followed by western blot with 11224-1-AP (alpha Tubulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



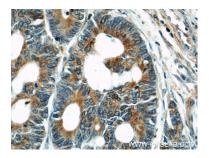
Lymphatic endothelial cells were stained for CD31 (green, Cat. No CL488-66065, 1:200) and alpha tubulin (magenta, Cat. 11224-1-AP, 1:200) with DAPI as a counterstain for visualizing the nucleus (yellow). CD31 is an endothelial cell adhesion protein and was conjugated to Coralite-488 fluorescent dye to allow for direct visualization. Alpha tubulin is a cytoskeletal protein important in cell division and migration and was visualized with an Alexa Fluor 568 secondary antibody.



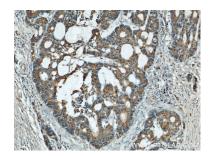
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 11224-1-AP (alpha Tubulin antibody) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



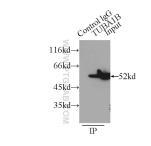
1X10^6 HEK-293 cells were stained with 0.2ug alpha Tubulin antibody (11224-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). FITC-Goat anti-Rabbit IgG with dilution 1:100.



Immunohistochemical analysis of paraffinembedded human colon cancer using 11224-1-AP (alpha Tubulin antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffinembedded human colon cancer using 11224-1-AP (alpha Tubulin antibody) at dilution of 1:50 (under 10x lens).



IP Result of anti-alpha Tubulin (IP:11224-1-AP, 3ug; Detection:11224-1-AP 1:1000) with HeLa cells lysate 5000ug.