## For Research Use Only

## Alpha Tubulin Polyclonal antibody Catalog Number:11224-1-AP 1627 Publications

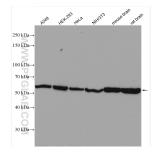


Basic Information	Catalog Number: 11224-1-AP	GenBank Accession Number: BC009314		Purification Method: Antigen affinity purification	
	Concentration:	Genel D (NC	BI):	Recommended Dilutions: WB 1:3000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	600 ug/ml	10376			
	Source: Rabbit	UNIPROT ID P68363	:		
	Isotype:	Full Name:			
	lgG	tubulin, alpha 1b		IF-Fro 1:50-1:500 IF/ICC 1:50-1:500	
	Immunogen Catalog Number: AG1727	Calculated I 50 kDa	MW:		
		Observed M 50-55 kDa	W:		
Applications	Tested Applications:			Positive Controls:	
	WB, IHC, IF/ICC, IF-Fro, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP			WB : A549 cells, HEK-293 cells, HeLa cells, NIH/3T3 cells, rat brain	
				IP: HeLa cells,	
	Species Specificity:			IHC : human colon cancer tissue, human liver cancer	
	human, mouse, rat Cited Species: human, mouse, rat, rabbit, monkey, chicken, zebrafish, hamster, goat, p. lividus		tissue, huma	tissue, human endometrial cancer tissue	
			fish, IF-Fro : mou	IF-Fro : mouse testis tissue, IF/ICC : HeLa cells, HepG2 cells, MCF-7 cells,	
	Note-IHC: suggested antig TE buffer pH 9.0; (*) Alteri retrieval may be performe buffer pH 6.0	natively, antige	ui ș.	Lymphatic endothelial cells cells	
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 usef 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	Pubmed ID	Journal	Application	
	Xiang Li	36246628	Front Genet	WB	
	Lin-Tao Xu	34601084	J Ethnopharmacol	WB	
	Yufei Yao	34660289	Front Oncol	WB	
	Storage:				

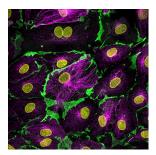
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

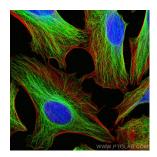
## Selected Validation Data



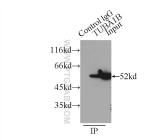
Various lysates were subjected to SDS PAGE followed by western blot with 11224-1-AP (alpha Tubulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



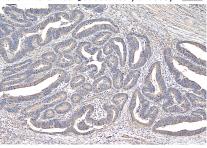
Lymphatic endothelial cells were stained for CD31 (green, Cat. No CL488-66065, 1:200) and alpha tubulin (magenta, Cat. 11224-1-AP, 1:200) with DAPI as a counterstain for visualizing the nucleus (yellow). CD31 is an endothelial cell adhesion protein and was conjugated to CoraLite-488 fluorescent dye to 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.



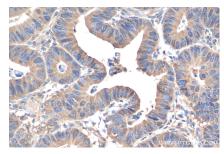
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Alpha Tubulin antibody (11224-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



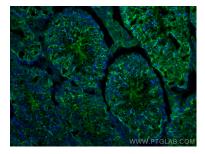
IP result of anti-Alpha Tubulin (IP:11224-1-AP, 3ug; Detection:11224-1-AP 1:1000) with HeLa cells lysate 5000ug.



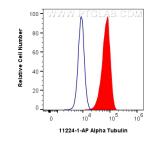
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 11224-1-AP (Alpha Tubulin antibody) at dilution of 1:2200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 11224-1-AP (Alpha Tubulin antibody) at dilution of 1:2200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse testis tissue using Alpha Tubulin antibody (11224-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.5 ug Alpha Tubulin Polyclonal antibody (11224-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.5 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).