For Research Use Only

## Alpha Tubulin Polyclonal antibody

Catalog Number:11224-1-AP 1627 Publications

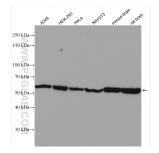


Basic Information	Catalog Number: 11224-1-AP	GenBank Accession Number: BC009314		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 800 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1727	GeneID (NCBI): 10376 UNIPROT ID: P68363 Full Name: tubulin, alpha 1b Calculated MW: 50 kDa Observed MW:		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 IF-Fro 1:50-1:500 IF/ICC 1:50-1:500	
		50-55 kDa			
Applications	Tested Applications: WB, IHC, IF/ICC, IF-Fro, FC (Intra), IP, ELISA Cited Applications:		Positive Controls: WB : A549 cells, HEK-293 cells, HeLa cells, NIH/3T3 cells, rat brain		
	WB, IHC, IF, IP, CoIP		IP : HeLa cells	IP : HeLa cells,	
	Species Specificity: human, mouse, rat		IHC : human colon cancer tissue, human liver cancer tissue, human endometrial cancer tissue		
	Cited Species: human, mouse, rat, rabbit, monkey, chicken, zebrafish, hamster, goat, p. lividus		IF-Fro : mouse testis tissue,		
			IF/ICC : HeLa cells, HepG2 cells, MCF-7 cells,		
	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	buffer pH 6.0 There are five tubulins in human cell species. They form heterodimers, wh heterodimer is the basic structural un alpha and beta tubulins, which are ex-	.s: alpha, beta, gamma, ich multimerize to forn nit of microtubules. The ach about 55 kDa MW, a nal control due to its hi	n a microtubule heterodimer de are homologous gh, ubiquitous	filament. An alpha and beta tubulin bes not come apart once formed. The but not identical. Alpha tubulin is usef	
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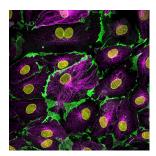
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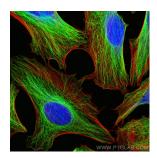
## Selected Validation Data



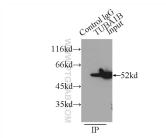
Various lysates were subjected to SDS PAGE followed by western blot with 11224-1-AP (alpha Tubulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



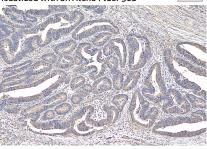
Lymphatic endothelial cells were stained for CD31 (green, Cat. No CL488-66065, 1:200) and alpha tubulin (magenta, Cat. 11224-1-AP, 1:200) with DAPI as a counterstain for visualizing the nucleus (yellow). CD31 is an endothelial cell adhesion protein and was conjugated to CoraLite-488 fluorescent dye to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



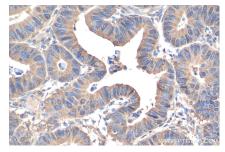
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Alpha Tubulin antibody (11224-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



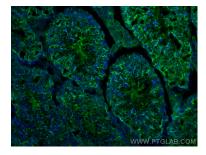
IP result of anti-Alpha Tubulin (IP:11224-1-AP, 3ug; Detection:11224-1-AP 1:1000) with HeLa cells lysate 5000ug.



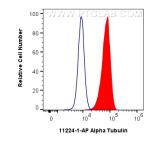
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 11224-1-AP (Alpha Tubulin antibody) at dilution of 1:2200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).