For Research Use Only

Alpha Tubulin Monoclonal antibody

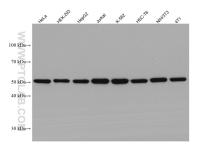
Catalog Number:66031-1-lg Featured Product 1220 Publications



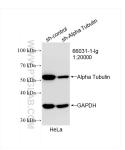
Basic Information	Catalog Number: 66031-1-lg	GenBank Accession Number: BC009314		Purification Method: Protein A purification	
	Concentration: GeneID (NCBI): 1000 μ g/ml 10376		CloneNo.:		
				1E4C11	
	Source: Mouse	UNIPROT ID: P68363		Recommended Dilutions: WB: 1:20000-1:100000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
	Isotype:	Full Name:			
	lgG2b	tubulin, alpha 1b Calculated MW: 50 kDa Observed MW: 50-55 kDa		protein lysate IHC: 1:200-1:1000 IF/ICC: 1:500-1:2000 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension	
	Immunogen Catalog Number: AG18034				
Applications	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat, canine Cited Species: human, mouse, rat, rabbit, monkey, chicken, zebrafish,		Positive Co	ntrols:	
				WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells	
			IP : HeLa cel	IP : HeLa cells,	
				IHC : human tonsillitis tissue, human liver cancer tissue, human colon cancer tissue	
			sh,	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	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. This antibody specifically recognizes Tubulin Alpha.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Sirwan Sleman	36179070	Viral Immunol	WB	
	Pengcheng Ma	36179027	Sci Adv	WB	
	Wei Wen	33133097	Front Immunol	WB	
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and	•	17.3		

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

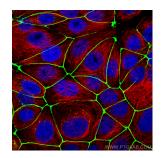
Selected Validation Data



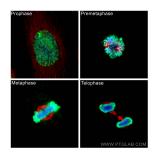
Various lysates were subjected to SDS PAGE followed by western blot with 66031-1-lg (Alpha Tubulin antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



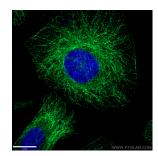
WB result of Alpha Tubulin antibody (66031-1-lg; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Alpha Tubulin transfected HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Alpha Tubulin antibody (66031-1-lg, Clone: 1E4C11) at dilution of 1:1000 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L), ZO-1 antibody (21773-1-AP, green).



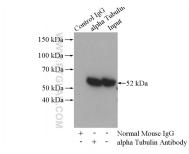
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11) at dilution of 1:1000 and Coralite®594-Conjugated Goat Anti-Mouse IgG(H+L), Histone H1.2 antibody (19649-1-AP, green).



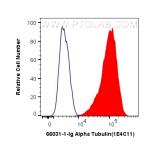
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66031-1-Ig(alpha Tubulin antibody) at dilution of 1:100 and Alexa Fluor 488conjugated Goat Anti-Mouse IgG(I+L).



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66031-1-1g (alpha Tubulin antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



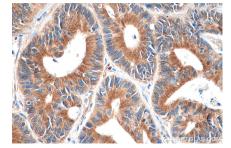
IP result of anti-Alpha Tubulin (IP:66031-1-Ig, 5ug; Detection:11224-1-AP 1:1000) with HeLa cells lysate 2800ug.

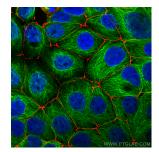


1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human Alpha Tubulin (66031-1-1g, Clone:1E4C11) and Coralite@488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-1g, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66031-1-Ig (Alpha Tubulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 66031-1-1g (Alpha Tubulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L), ZO-1 antibody (21773-1-AP, red).