

For Research Use Only



CoraLite®594-conjugated Alpha Tubulin Monoclonal antibody

Catalog Number: **CL594-66031**

Basic Information

Catalog Number: CL594-66031	GenBank Accession Number: BC009314	Purification Method: Protein A purification
Size: 100UL, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10376	CloneNo.: 1E4C11
Source: Mouse	Full Name: tubulin, alpha 1b	Recommended Dilutions: WB 1:300-1:500 IF 1:50-1:500
Isotype: IgG2b	Calculated MW: 50 kDa	Excitation/Emission maxima wavelengths: 593 nm/614 nm
Immunogen Catalog Number: AG18034		

Applications

Tested Applications: FC, IF, WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, dog	WB: HeLa cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells IF: HepG2 cells, HeLa 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 useful 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 is CL594(Ex/Em 593 nm/614 nm) conjugated.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

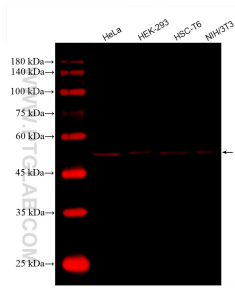
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

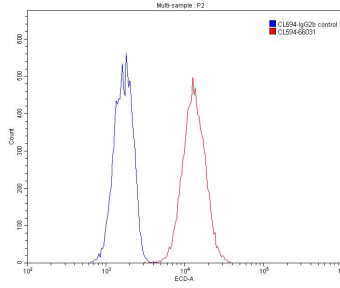
E: proteintech@ptglab.com
W: ptglab.com

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

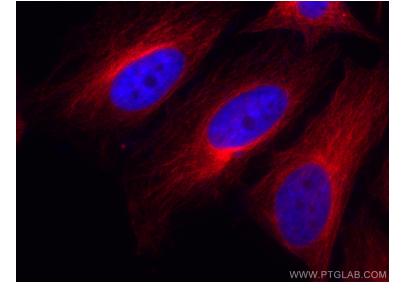
Selected Validation Data



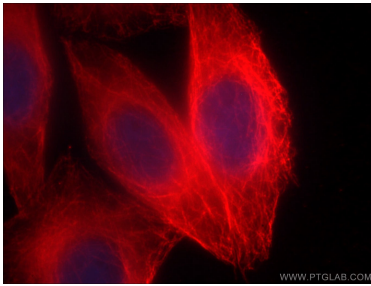
Various lysates were subjected to SDS PAGE followed by western blot with CL594-66031 (Alpha Tubulin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1X10⁶ HepG2 cells were stained with 0.20ug alpha Tubulin antibody (CL594-66031, red) and control antibody (blue). Fixed with 90% MeOH.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using the CoraLite® 594-conjugated version of this antibody, CL594-66031 (alpha Tubulin antibody), at dilution of 1:100.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-66031 (alpha Tubulin antibody) at dilution of 1:100.