

For Research Use Only

# CoraLite®488-conjugated Beta Tubulin Monoclonal antibody



Catalog Number: CL488-66240

3 Publications

## Basic Information

<b>Catalog Number:</b> CL488-66240	<b>GenBank Accession Number:</b> BC000748	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 2000 µg/ml by Nanodrop and 2000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10381	<b>CloneNo.:</b> 1D4A4
<b>Source:</b> Mouse	<b>Full Name:</b> tubulin, beta 3	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 450 aa, 50 kDa	<b>Excitation/Emission maxima wavelengths:</b> 488 nm/515 nm
<b>Immunogen Catalog Number:</b> AG0117		

## Applications

<b>Tested Applications:</b> IF, WB	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> HeLa cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse, rat, nematode, pig, zebrafish	<b>IF :</b> HepG2 cells,
<b>Cited Species:</b> human, rat	

## 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 and beta tubulins have been widely used as loading controls. Tubulin expression may vary according to resistance to antimicrobial and antimetabolic drugs.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wen Lu	34089646	Curr Biol	IF
Momoka Ota	34333065	Toxicol Lett	IF
Masayasu Toyomoto	33561428	Cell Chem Biol	IF

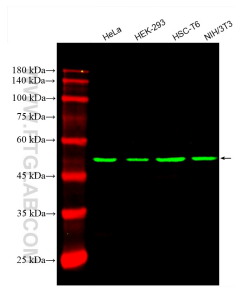
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

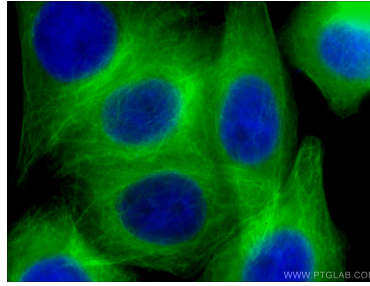
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-66240 (Beta Tubulin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CL488-66240 (beta Tubulin antibody) at dilution of 1:100.