

For Research Use Only

# Biotin-conjugated Alpha Tubulin Monoclonal antibody



Catalog Number: Biotin-66031

## Basic Information

<b>Catalog Number:</b> Biotin-66031	<b>GenBank Accession Number:</b> BC009314	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100UL, Concentration: 2000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10376	<b>CloneNo.:</b> 1E4C11
<b>Source:</b> Mouse	<b>Full Name:</b> tubulin, alpha 1b	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 50 kDa	
<b>Immunogen Catalog Number:</b> AG18034		

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human liver cancer tissue,
<b>Species Specificity:</b> human, mouse, rat, dog	

**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 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 specifically recognizes Tubulin Alpha.

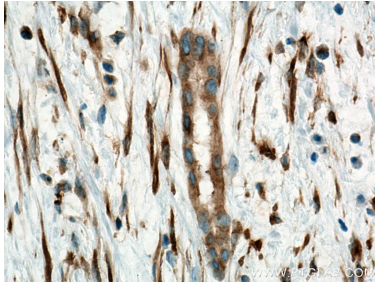
## Storage

**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

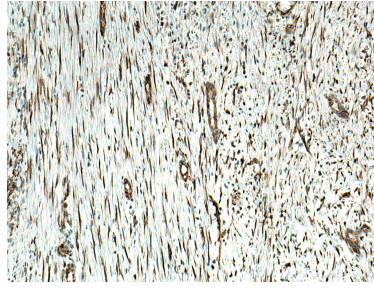
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using Biotin-66031 (alpha Tubulin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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