

For Research Use Only



# CoraLite594-conjugated acetylated Tubulin(Lys40) Monoclonal ANTIBODY

Catalog Number: **CL594-66200**

## Basic Information

Catalog Number:  
CL594-66200

Size:  
100 µg/ 100 µl

Source:  
Mouse

Isotype:  
IgG1

Purification Method:  
Protein G purification

Immunogen Catalog Number:

GenBank Accession Number:  
NM\_006009

GeneID (NCBI):  
7846

Full Name:  
tubulin, alpha 1a

Calculated MW:  
52 kDa

Observed MW:

Recommended Dilutions:  
IF 1:50-1:500

Excitation/Emission maxima wavelengths:  
593 nm/614 nm

## Applications

Tested Applications:  
IF, ELISA

Species Specificity:  
human, mouse, rat, dog,pig

Positive Controls:

IF : MDCK cells;

## Background Information

Tubulin, composed of heterodimers of alpha and beta tubulin, is the mainly component of microtubules which play important roles in cell motility, mitosis, and intracellular vesicle transport. Both alpha and beta tubulin undergo several posttranslational modifications such as polyglutamylation and acetylation/deacetylation. Tubulin acetylation occurs on lysine-40 at the N-terminal of alpha tubulin and is conserved across species. The histone deacetylase HDAC6 and SIRT2 has been identified as tubulin deacetylases. Reversible acetylation of alpha tubulin may be implicated in regulating microtubule stability, cell motility, and axon regeneration. The level of acetylated tubulin has been linked to epithelial malignancies and sensitivity to chemotherapy. In addition, acetylated tubulin has been widely used as a marker for primary cilia. This antibody is specific to the acetylated tubulin; it does not recognize non-acetylated tubulin. (24268707, 23881549) And this antibody is CL594(Ex/Em 593 nm/614 nm) conjugated.

## Notable Publications

Author	Pubmed ID	Journal	Application
--------	-----------	---------	-------------

## Storage

Storage:

Store at -20°C. 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

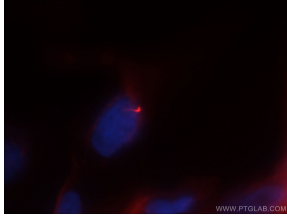
For technical support and original validation data for this product please contact:

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

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using CL594-66200 (acetylated Tubulin(Lys40) antibody) at dilution of 1:100.