

For Research Use Only

# CoraLite®594-conjugated Acetyl-Tubulin (Lys40) Monoclonal antibody

Catalog Number:CL594-66200

3 Publications



## Basic Information

<b>Catalog Number:</b> CL594-66200	<b>GenBank Accession Number:</b> NM_006009	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7846	<b>CloneNo.:</b> 7E5H8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q71U36	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> tubulin, alpha 1a	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
	<b>Calculated MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : MDCK cells,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human, mouse, rat, Canine, pig	
<b>Cited Species:</b> zebrafish	

## Background Information

Tubulin, composed of heterodimers of alpha and beta tubulin, is the main 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
Abhishek Chadha	34301828	J Neurosci	IF
Hye In Ka	37898820	Cell Biosci	IF
Erika M Ellis	36977418	Curr Biol	IF

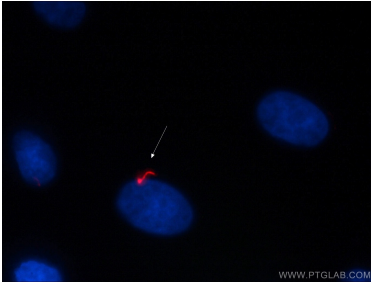
## Storage

**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

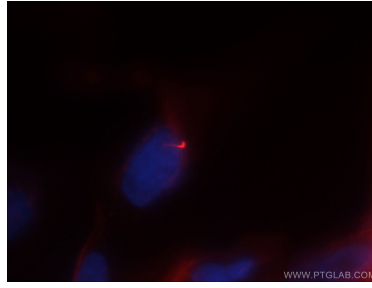
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



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



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