

For Research Use Only

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



Catalog Number: CL594-66200

3 Publications

Basic Information

Catalog Number:

CL594-66200

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM_006009

GeneID (NCBI):

7846

UNIPROT ID:

Q71U36

Full Name:

tubulin, alpha 1a

Calculated MW:

52 kDa

Purification Method:

Protein G purification

CloneNo.:

7E5H8

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Cited Applications:

IF

Species Specificity:

human, mouse, rat, Canine, pig

Cited Species:

zebrafish

Positive Controls:

IF/ICC : MDCK cells,

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:

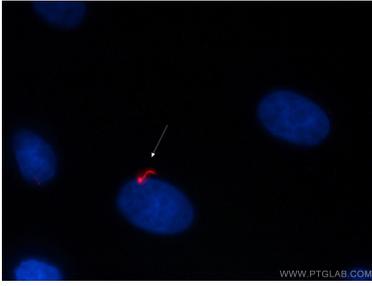
T: 4006900926

E: Proteintech-CN@ptglab.com

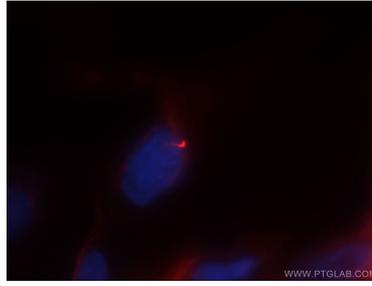
W: ptgcn.com

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 (Acetyl-Tubulin (Lys40) antibody) at dilution of 1:100.



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