

For Research Use Only

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



Catalog Number: **CL594-66200**

1 Publications

Basic Information

Catalog Number: CL594-66200	GenBank Accession Number: NM_006009	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7846	CloneNo.: 7E5H8
Source: Mouse	Full Name: tubulin, alpha 1a	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 52 kDa	Excitation/Emission maximum wavelengths: 593 nm/614 nm

Applications

Tested Applications: IF	Positive Controls: IF : MDCK cells,
Cited Applications: IF	
Species Specificity: human, mouse, rat, Canine, pig	

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 polyglutamylolation 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

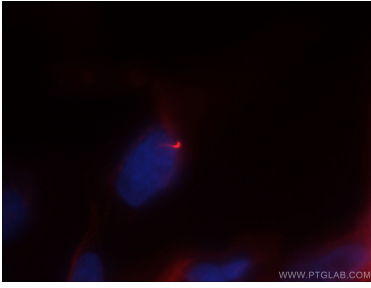
Storage

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

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.