

CoraLite® Plus 488-conjugated acetylated Tubulin(Lys40) Monoclonal antibody

Catalog Number: **CL488-66200****3 Publications**

Basic Information

Catalog Number:

CL488-66200

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 1:50-1:500

Excitation/Emission maximum wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Cited Applications:

IF

Species Specificity:

human, mouse, rat, Canine, pig

Cited Species:

human, rat

Positive Controls:

IF : MDCK cells, mouse kidney tissue

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). This antibody is conjugated with CL488, Ex/Em 488 nm/515 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Vincent Manna	34585152	STAR Protoc	IF
Vincent J Manna	35187520	BBA Adv	IF
Tingting Zhang	37900281	Front Cell Dev 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

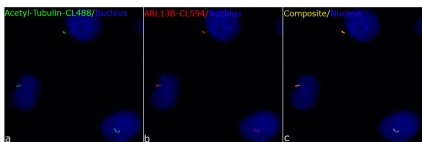
For technical support and original validation data for this product please contact:

T: 4006900926

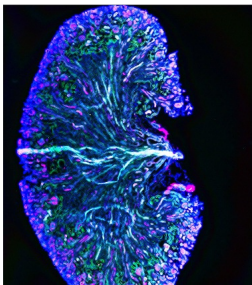
E: Proteintech-CN@ptglab.comW: ptgcn.com

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 CL488-66200 (GREEN, acetylated Tubulin(Lys40) antibody) at dilution of 1:50 and CL594-17711 (RED, ARL13B antibody) at dilution of 1:50.



Frozen tissue section of adult mouse kidney was stained for acetylated α -tubulin (magenta, Cat. No CL488-66200), CD-31/PECAM-1 (white), and Shh (green, Cat. No 20697-1-AP) with DAPI as a counterstain for visualizing the nucleus (blue). acetylated α -tubulin stains primary cilia and was conjugated to Coralite-488 fluorescent dye and psedocolored to magenta. CD-31 stains endocardial/endothelial cells and was visualized with an Alexa Fluor 647 secondary

