For Research Use Only

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

Catalog Number:CL488-66200

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-66200

Size:
1000 μg/ml

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

CloneNo.:
7E5H8

Recommended Dilutions:
IF 1:50-1:500

Excitation/Emission maxima wavelengths:
488 nm/515 nm

Applications

Tested Applications:
IF, ELISA

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

Positive Controls:

IF : MDCK cells;

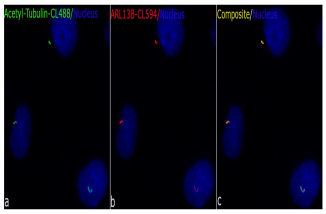
Background Information

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

Storage

Storage:
Store at -20ºC. 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

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.