

YF488-conjugated acetylated Tubulin(Lys40) Monoclonal ANTIBODY

Catalog Number: **YF488-66200**

Basic Information

Catalog Number:
YF488-66200Size:
100 µg/100 µlSource:
MouseIsotype:
IgG1Purification Method:
Protein G purification

Immunogen Catalog Number:

GenBank Accession Number:
NM_006009GeneID (NCBI):
7846Full Name:
tubulin, alpha 1aCalculated MW:
52 kDa

Observed MW:

Recommended Dilutions:
IF 1:20-1:100

Applications

Tested Applications:
IF, ELISASpecies 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 YF488, Ex/Em 488 nm/515 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
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Storage

Storage:

Store at -20°C. 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

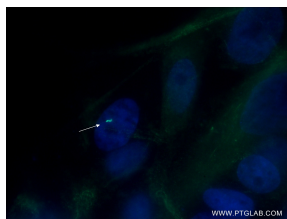
For technical support and original validation data for this product please contact:

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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 YF488-66200 (acetylated Tubulin(Lys40) antibody) at dilution of 1:50.