acetylated Tubulin(Lys40)
Monoclonal ANTIBODY
Catalog Number: 66200-1-Ig

Catalog Number: 66200-1-Ig
GenBank Accession Number: NM_006009
GeneID (NCBI): 7646

Source:
Mouse
Isotype: IgG1
Purification Method: Protein G purification
Immunogen Catalog Number: 

Basic Information
Catalog Number: 66200-1-Ig
Size: 105 μg/150 μl

Source:
Mouse
Isotype: IgG1
Purification Method: Protein G purification
Immunogen Catalog Number: 

Applications
Tested Applications:
IF, IHC, WB, ELISA
Cited Applications:
IF, WB
Species Specificity:
human, mouse, rat, dog, pig
Cited Species:
toxinea, Drosophila, human, mouse, rat

Note-IMC: suggested antigen retrieval with TE buffer pH 9.0. (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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. (24308707, 23881549)

Notable Publications
Author: Yan Yan
PubMed ID: 28966044
Journal: Dev Cell
Application: WB

Author: Yanwei Sha
PubMed ID: 31502483
Journal: Syst Biol Reprod Med
Application: WB, IF

Author: Lei Zhao
PubMed ID: 30202098
Journal: Oncogene
Application: WB

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For Research Use Only
20 Publications

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E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunofluorescent images of MDCK cells stained for IFT88 rabbit pAb (13967-1-AP) and acetylated tubulin mouse mAb (66200-1-Ig) at dilution of 1:50, further stained with Alexa Fluor 594-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) for 13967-1-AP and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L) for 66200-1-Ig.

Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 66200-1-Ig (acetylated Tubulin(Lys40) antibody) at dilution of 1:2000 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

HEK-293 cells were subjected to SDS PAGE followed by western blot with 66200-1-Ig (acetylated Tubulin(Lys40) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.