

Antibodies

Anti-Acetylated Alpha-Tubulin (Acetyl K40) Antibody, Clone TEU318

Mouse monoclonal IgG1 antibody against human, mouse, rat acetylated alpha-tubulin (acetyl K40), unconjugated



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Catalog #100-0753

100 µg

1 mg/mL

Product Description

The TEU318 antibody reacts with the acetylated form of alpha-tubulin, which is a 55 kDa protein. In eukaryotic cells, alpha- and beta-tubulins associate to form heterodimers and are the key building blocks of microtubules. These microtubules are filamentous, cylinder-like cytoskeletal structural support elements of eukaryotic cells. The stability of these microtubules can be altered by post-translational modifications, such as the acetylation of alpha-tubulin. Acetyl groups can be added to Lys40 of alpha-tubulin by acetyltransferase alpha-Tat1 (Mec-17), and this post-translational modification can aid in stabilizing the overall microtubule structure. Research indicates that acetylated tubulin may play a critical role in the differentiation of microtubule structure and function.

Target Antigen Name:	Acetylated alpha-tubulin
Alternative Names:	α-tubulin (acetyl K40)
Gene ID:	7846
Species Reactivity:	Human, Mouse, Rat, Other Mammals
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	TEU318
Isotype:	IgG1
Immunogen:	Tubulin of the ciliate Euplotes eluted from the 55 kDa band of SDS-PAGE
Conjugate:	Unconjugated

Applications

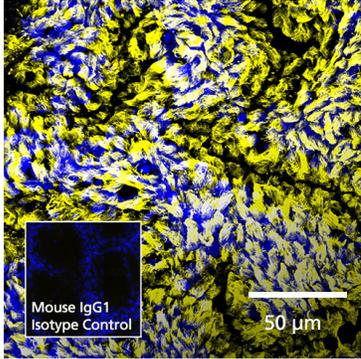
Verified:	ICC/IF
Reported:	WB, ICC/IF
Special Applications:	This antibody clone has been verified for labeling human bronchial epithelial cells (HBECs) cultured in PneumaCult™-ALI Medium (Catalog #05001) in air-liquid interface cultures.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution containing 0.02% sodium azide and 10% glycerol
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at -20°C when stored undiluted. Stable until expiry date (EXP) on label.
Directions for Use:	The suggested use of this antibody is: ICC, 1:2000; WB, 1:2000. It is recommended that the antibody be titrated for optimal performance for each application.

Data



HBECs were cultured in PneumaCult™-ALI Medium, then fixed, permeabilized, and labeled with Anti-Acetylated Alpha-Tubulin Antibody (Acetyl K40), Clone TEU318, followed by goat anti-mouse IgG1, Alexa Fluor® 488. Nuclei were counter-stained with DAPI. Inset shows cells labeled with a mouse IgG1, kappa isotype control antibody, followed by goat anti-mouse IgG1, Alexa Fluor® 488 (with DAPI staining).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Gadadhar S et al. (2017) Tubulin glycylation controls primary cilia length. *J Cell Biol* 216(9): 2701–13. (IF)

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