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Acetyl-α-Tubulin (Lys40) (6-11B-1) Mouse



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Applications: W, IP, IF-F, IF-IC	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Mouse IgG2b	UniProt ID: #P68363	Entrez-Gene Id 10376
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Immunofluorescence	e (Frozen)	nistry)		Dilution 1:1000 1:50 1:800 1:800
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% gly 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Acetyl- α -Tubulin (Lys40) (6-11B-1) Mouse mAb recognizes endogenous levels of α -tubulin protein only when acetylated at Lys40.				
Species predict based on 100% homology		Mouse				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic acetylpeptide corresponding to residues surrounding Lys40 of human α -tubulin protein.				
Background		The cytoskeleton consists of three types of cytosolic fibers: microtubules, microfilaments (actin filaments), and intermediate filaments. Globular tubulin subunits comprise the microtubule building block, with α/β -tubulin heterodimers forming the tubulin subunit common to all eukaryotic cells. Yetubulin is required to nucleate polymerization of tubulin subunits to form microtubule polymers. Many cell movements are mediated by microtubule action, including the beating of cilia and flagella, cytoplasmic transport of membrane vesicles, chromosome alignment during meiosis/mitosis, and nerve-cell axon migration. These movements result from competitive microtubule polymerization and depolymerization or through the actions of microtubule motor proteins (1). The Elongator complex catalytic subunit (Elp3) acetylates α -tubulin at Lys40, while the histone deacetylase HDAC6 functions as a tubulin deacetylase. This post-translational modification may be required for dynamic cell shape remodeling, cell motility, tubulin stability, and terminal branching of cortical neurons (2,3).				
Background References		1. Westermann, S. and Weber, K. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 938-47. 2. Creppe, C. et al. (2009) <i>Cell</i> 136, 551-64. 3. Hubbert, C. et al. (2002) <i>Nature</i> 417, 455-8.				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.	, western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfadry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human R: Rat				
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