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#2116

β-Tubulin (9F3) Rabbit mAb (Alexa Fluor® 555 Conjugate)



Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC	Reactivity: H M R Mk Z B	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P07437	Entrez-Gene Id: 203068
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Product Usage Information	Application Immunofluorescence (Immunocytochemistry)	Dilution 1:200
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity / Sensitivity	β-Tubulin (9F3) Rabbit mAb (Alexa Fluor® 555 Conjugate) detects endogenous levels of total β-tubulin protein.	
Species predicted to react based on 100% sequence homology:	Chicken	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the amino terminus of human β-tubulin. The antibody was conjugated to Alexa Fluor® 555 under optimal conditions with an F/P ratio of 2-6.	
Product Description	Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for direct immunofluorescent analysis of human and monkey cells. The unconjugated antibody #2128 reacts with human, mouse, rat, monkey, bovine, zebrafish and fly β-tubulin protein. CST expects that β-Tubulin (9F3) Rabbit mAb (Alexa Fluor® 555 Conjugate) will also recognize β-tubulin in these species.	
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. γ-tubulin 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).	
Background References	1. Westermann, S. and Weber, K. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 938-47.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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