



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at +4C  
#3623

## $\beta$ -Tubulin (9F3) Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC, FC-FP	H M R Mk Z B	Endogenous	Rabbit IgG	#P07437	203068

Product Usage Information	Application	Dilution
	Immunofluorescence (Immunocytochemistry)	1:200
	Flow Cytometry (Fixed/Permeabilized)	1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	$\beta$ -Tubulin (9F3) Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate) detects endogenous levels of total $\beta$ -tubulin protein and does not cross-react with recombinant $\alpha$ -tubulin.	
<b>Species predicted to react based on 100% sequence homology</b>	Chicken	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the amino terminus of human $\beta$ -tubulin.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated $\beta$ -Tubulin (9F3) Rabbit mAb #2128.	
<b>Background</b>	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 $\alpha/\beta$ -tubulin heterodimers forming the tubulin subunit common to all eukaryotic cells. $\gamma$ -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).	
<b>Background References</b>	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) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** **H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey **Z:** Zebrafish **B:** Bovine

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