

#2116  
Store at +4C **$\beta$ -Tubulin (9F3) Rabbit mAb (Alexa Fluor<sup>®</sup> 555 Conjugate)**

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|                               |                                    |                                   |                                      |                               |                                  |
|-------------------------------|------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|----------------------------------|
| <b>Applications:</b><br>IF-IC | <b>Reactivity:</b><br>H M R Mk Z B | <b>Sensitivity:</b><br>Endogenous | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#P07437 | <b>Entrez-Gene Id:</b><br>203068 |
|-------------------------------|------------------------------------|-----------------------------------|--------------------------------------|-------------------------------|----------------------------------|

|   |  |                          |
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| <b>Product Usage Information</b>                                  | <b>Application</b><br>Immunofluorescence (Immunocytochemistry)   | <b>Dilution</b><br>1:200 |
| <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> 555 Conjugate) detects endogenous levels of total $\beta$ -tubulin protein.  |                          |
| <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. The antibody was conjugated to Alexa Fluor <sup>®</sup> 555 under optimal conditions with an F/P ratio of 2-6.  |                          |
| <b>Description</b>  | Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 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 $\beta$ -tubulin protein. CST expects that $\beta$ -Tubulin (9F3) Rabbit mAb (Alexa Fluor <sup>®</sup> 555 Conjugate) will also recognize $\beta$ -tubulin in these species.  |                          |
| <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)

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

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