

**$\alpha$ -Tubulin (11H10) Rabbit mAb  
(Biotinylated)**

**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

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| Applications: | Reactivity:           | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-----------------------|--------------|-----------|-----------------|-------------|-----------------|
| W             | H M R Mk Dm Z B<br>Pg | Endogenous   | 52        | Rabbit IgG      | #P68363     | 10376           |

|   |  |                           |
|---|--|---------------------------|
| <b>Product Usage Information</b>                                  | <b>Application</b><br>Western Blotting   | <b>Dilution</b><br>1:1000 |
| <b>Storage</b>  | Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>   |                           |
| <b>Specificity/Sensitivity</b>                                    | $\alpha$ -Tubulin (11H10) Rabbit mAb (Biotinylated) detects endogenous levels of total $\alpha$ -tubulin protein and does not cross-react with recombinant $\beta$ -tubulin.   |                           |
| <b>Species predicted to react based on 100% sequence homology</b> | Dog  |                           |
| <b>Source / Purification</b>                                      | Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the amino terminus of human $\alpha$ -tubulin.  |                           |
| <b>Description</b>  | This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated $\alpha$ -Tubulin (11H10) Rabbit mAb #2125.   |                           |
| <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.   |                           |
| <b>Species Reactivity</b>   | Species reactivity is determined by testing in at least one approved application (e.g., western blot).   |                           |
| <b>Western Blot Buffer</b>  | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.   |                           |
| <b>Applications Key</b>   | <b>W:</b> Western Blotting   |                           |
| <b>Cross-Reactivity Key</b>                                       | <b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey <b>Dm:</b> D. melanogaster <b>Z:</b> Zebrafish <b>B:</b> Bovine <b>Pg:</b> Pig   |                           |
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