

# $\beta$ -Tubulin Blocking Peptide



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

**Description:** This peptide is used to block  $\beta$ -Tubulin (9F3) Rabbit mAb #2128 reactivity.

**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  $\alpha/\beta$ -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).

**Quality Control:** The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry. The peptide blocks  $\beta$ -Tubulin (9F3) Rabbit mAb #2128 by peptide dot blot.

**Directions for Use:** Use as a blocking reagent to evaluate the specificity of antibody reactivity in peptide dot blot protocols. Recommended antibody dilutions can be found on the product data sheet.

**Background References:**

- (1) Westermann, S. and Weber, K. (2003) *Nat. Rev. Mol. Cell Biol.* 4, 938 -947.

Entrez-Gene ID #203068  
UniProt ID #P07437

**Storage:** Supplied in 20 mM potassium phosphate (pH 7.0), 50 mM NaCl, 0.1 mM EDTA, 1 mg/ml BSA and 5% glycerol. 1% DMSO Store at -20°C.

**For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

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