

phospho- β -Tubulin (Ser-444) Peptide

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CATALOG #
AAA71539

PRODUCT SYNONYMS

phospho- β -Tubulin (Ser-444) Peptide; phospho- β -Tubulin (Ser-444) Peptide; phospho- β -Tubulin (Ser-444) Peptide peptide

PRODUCT SPECIFICATIONS

Specificity	The peptide is specifically recognized by β -Tubulin (Cterminus) antibody (TP1691) in ELISA, and has been shown to block the reactivity of TP1691 in Western blot and immunocytochemistry.
Form/Format	Blocking Peptide is supplied in 50ul phosphate-buffered saline and 0.05% sodium azide.
Sequence	PeptideSeq uence:Phos pho- β -Tubulin (Ser-444)s yntheticpe ptideconta iningamino acidresidu esaroundse rine444ofh uman β -Tubulin .Thisseque nceisnotfo undin β -Tubulin is otypes,but iswellcons ervedinbet a- β -Tubulin fromrat andmouse.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

ADDITIONAL INFORMATION

Related Product Information for phospho- β -Tubulin (Ser-444) Peptide peptide	Microtubules (MTs) are cytoskeletal elements that play an essential role in cell division and cytoplasmic organization. MTs are dynamic polymers of α / β -tubulin heterodimers. At least two populations of MTs, called dynamic and stable according to their rates of turnover, are readily distinguishable in cells. The proteins associated with MTs (MAPs) are among the best-known factors that regulate MT dynamics and stability. In addition, a variety of different post-translational modifications may also regulate MT dynamics and stability. Phosphorylation is one of these modifications and it can occur on serine, threonine, and tyrosine residues in β -tubulin isoforms. Multiple kinases can phosphorylate Ser-444 at the C-terminus of β -tubulin in vitro. Unphosphorylated Ser-444 in β -Tubulin is an early marker for cells of neuronal lineage, while phosphorylation of Ser-444 is upregulated after neuronal maturation and may preferentially occur in assembled MTs. By contrast, Cdk1 phosphorylation of Ser-172 in β -tubulin occurs in mitotic cells and may impair tubulin incorporation into microtubules.
References	- Fourest-Lieuvin, A. et al. (2006) Mol. Biol. Cell. 17(3):1041 - Westermann, S. & Weber, K. (2003) Nat. Rev. Mol. Cell. Biol. 4:938. - Fanarraga, M.L. et al. (1999) Eur. J. Neurosci. 11:517. - Diaz-Nido, J. et al. (1990) J Biol. Chem. 265(23):13949.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/peptide/phospho-beta-tubulin-ser-444-peptide/71539>