

beta-III-Tubulin (Ser-444) Peptide

Unphosphorylated beta-III-Tubulin (Ser-444) Peptide

CATALOG #
AAA71536

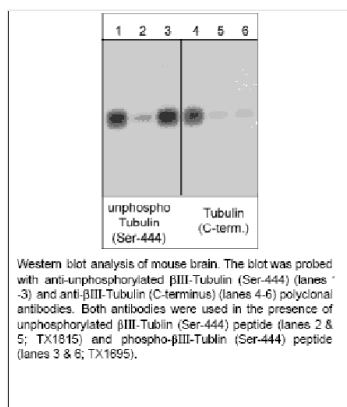
PRODUCT SYNONYMS

beta-III-Tubulin (Ser-444) Peptide; Unphosphorylated beta-III-Tubulin (Ser-444) Peptide; Unphosphorylated bIII-Tubulin (Ser-444) Peptide; beta-III-Tubulin (Ser-444) Peptide peptide

PRODUCT SPECIFICATIONS

Specificity	The peptide is specifically recognized by unphosphorylated beta III-Tubulin (Ser-444) antibody (TP1811) in ELISA, and has been shown to block the reactivity of TP1811 in Western blot and immunocytochemistry.
Form/Format	Blocking Peptide is supplied in 50ul phosphate-buffered saline and 0.05% sodium azide.
Sequence	PeptideSeq uence:Unph osphorylat edbeta-III -Tubulin(S er-444)syn theticpept idecontain saminoacid residuesar oundserine 444ofhuman beta-III-t ubulin.This ssequencei snotfoundi nbeta-Iorb eta-II-tub ulinisotyp es,butiswe llconserve dinbeta-II I-tubulins fromratand mouse.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for beta-III-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 alpha/beta-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 bestknown 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 beta-tubulin isoforms. Multiple kinases can phosphorylate Ser-444 at the C-terminus of beta-III-tubulin in vitro. Unphosphorylated Ser-444 in beta-III-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 beta-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.
- Díaz-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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/peptide/beta-iii-tubulin-ser-444-peptide/71536>