

**beta Tubulin Blocking Peptide**  
Synthetic peptide  
Catalog # BP22105a

## Specification

---

### beta Tubulin Blocking Peptide - Product Information

Primary Accession [P99024](#)  
Other Accession [O17299](#), [P12456](#), [P09203](#), [O24560](#), [O9YHC3](#),  
[O27U48](#), [O17449](#), [P36221](#), [O6EVK8](#), [O13885](#),  
[O4R5B3](#), [O7TMM9](#), [P85108](#), [O6B856](#), [O9BVA1](#),  
[O9CWF2](#), [O3KRE8](#), [P52275](#), [P32882](#), [P83130](#),  
[P61858](#), [P61857](#), [P13602](#), [O2T9S0](#), [P09206](#),  
[O13509](#), [O60HC2](#), [O9ERD7](#), [O4ORB4](#), [O3ZBU7](#),  
[P04350](#), [O4R4X8](#)

### beta Tubulin Blocking Peptide - Additional Information

**Gene ID** 22154

#### Other Names

Tubulin beta-5 chain, Tubb5

#### Target/Specificity

The synthetic peptide sequence is selected from aa 66-78 of HUMAN Tubb5

#### Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### beta Tubulin Blocking Peptide - Protein Information

**Name** Tubb5

#### Function

Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers. Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin.

#### Cellular Location

Cytoplasm, cytoskeleton

**Tissue Location**

Ubiquitously expressed with highest levels in spleen, thymus and immature brain. Expressed in embryonic brain, including throughout the developing cortex and in the subventricular zone. Also found in radial glial cells, intermediate progenitors, migrating neurons and postmitotic neurons (PubMed:23246003). Expressed in skin and developing hair follicle (PubMed:26637975)

**beta Tubulin Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**beta Tubulin Blocking Peptide - Images****beta Tubulin Blocking Peptide - Background**

Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.

**beta Tubulin Blocking Peptide - References**

Wang D.,et al.J. Cell Biol. 103:1903-1910(1986).  
Carninci P.,et al.Science 309:1559-1563(2005).  
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).  
Lubec G.,et al.Submitted (JUL-2007) to UniProtKB.  
Lewis S.A.,et al.J. Cell Biol. 101:852-861(1985).