

**beta III Tubulin Rabbit mAb (HRP)**  
Catalog # AP78587**Specification****beta III Tubulin Rabbit mAb (HRP) - Product Information**

Application	WB
Primary Accession	<a href="#">Q13509</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	50433

**beta III Tubulin Rabbit mAb (HRP) - Additional Information**

Gene ID 10381

**Other Names**  
TUBB3**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**beta III Tubulin Rabbit mAb (HRP) - Protein Information****Name** TUBB3**Synonyms** TUBB4**Function**

Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers (PubMed: [34996871](http://www.uniprot.org/citations/34996871)). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed: [34996871](http://www.uniprot.org/citations/34996871)). Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha- tubulin (PubMed: [34996871](http://www.uniprot.org/citations/34996871)). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed: [20074521](http://www.uniprot.org/citations/20074521)). Binding of NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed: [28483977](http://www.uniprot.org/citations/28483977)). Plays a role in dorsal root ganglion axon projection towards the spinal cord (PubMed: [28483977](http://www.uniprot.org/citations/28483977)).

**Cellular Location**

Cytoplasm, cytoskeleton. Cell projection, growth cone {ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q9ERD7}

#### Tissue Location

Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.

#### beta III Tubulin Rabbit mAb (HRP) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### beta III Tubulin Rabbit mAb (HRP) - Images

