

# beta III Tubulin Rabbit mAb (HRP)

Catalog # AP78587

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q13509</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	HRP
<b>Immunogen</b>	A synthesized peptide derived from human beta Tubulin
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	50433

## Additional Information

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<b>Gene ID</b>	10381
<b>Other Names</b>	TUBB3
<b>Dilution</b>	WB~~1/500-1/1000
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	TUBB3
<b>Synonyms</b>	TUBB4
<b>Function</b>	<p>Tubulin is the major constituent of microtubules, protein filaments consisting of alpha- and beta-tubulin heterodimers (PubMed:<a href="#">34996871</a>, PubMed:<a href="#">38305685</a>, PubMed:<a href="#">38609661</a>). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed:<a href="#">34996871</a>, PubMed:<a href="#">38305685</a>, PubMed:<a href="#">38609661</a>). Below the cap, alpha-beta tubulin heterodimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin (PubMed:<a href="#">34996871</a>, PubMed:<a href="#">38609661</a>). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed:<a href="#">20074521</a>). 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:<a href="#">28483977</a>). Plays a role in dorsal root ganglion axon projection towards the spinal cord</p>

(PubMed:[28483977](#)).

### Cellular Location

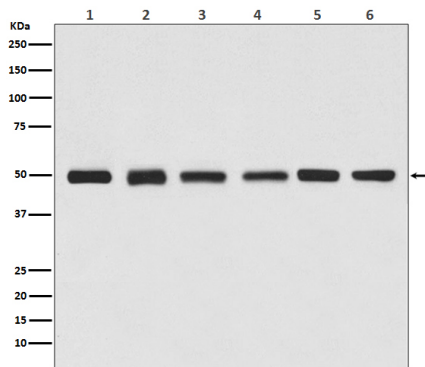
Cytoplasm, cytoskeleton. Cell projection, growth cone  
{ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, lamellipodium  
{ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, filopodium  
{ECO:0000250|UniProtKB:Q9ERD7}

### Tissue Location

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

## Images

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