

**TUBB3 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI15018****Specification**

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**TUBB3 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O13509</a>
Other Accession	<a href="#">NM_006086</a> , <a href="#">NP_006077</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Yeast, Bovine, Guinea Pig, Dog
Predicted Host	Human, Mouse, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 50kDa KDa

**TUBB3 antibody - C-terminal region - Additional Information****Gene ID** 10381**Alias Symbol** CFEOM3A, MC1R, TUBB4, beta-4, CDCBM**Other Names**

Tubulin beta-3 chain, Tubulin beta-4 chain, Tubulin beta-III, TUBB3, TUBB4

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-TUBB3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

TUBB3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**TUBB3 antibody - C-terminal region - 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:<a href="http://www.uniprot.org/citations/34996871" target="\_blank">34996871</a>). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed:<a href="http://www.uniprot.org/citations/20074521" target="\_blank">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="http://www.uniprot.org/citations/28483977" target="\_blank">28483977</a>). Plays a role in dorsal root ganglion axon projection towards the spinal cord (PubMed:<a href="http://www.uniprot.org/citations/28483977" target="\_blank">28483977</a>).

#### 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

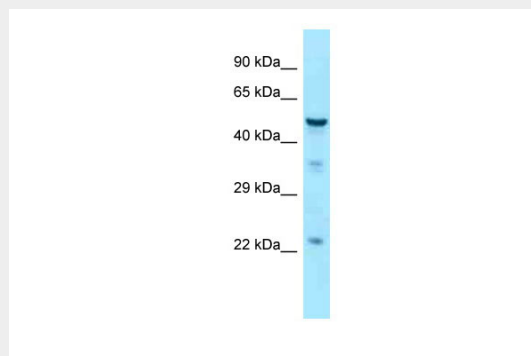
Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.

### TUBB3 antibody - C-terminal region - 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](#)

### TUBB3 antibody - C-terminal region - Images



WB Suggested Anti-TUBB3 Antibody Titration: 1.0 µg/ml

Positive Control: Fetal Brain

### TUBB3 antibody - C-terminal region - References

- Ranganathan S., et al. *Biochim. Biophys. Acta* 1395:237-245(1998).  
Banerjee A., et al. Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Martin J., et al. *Nature* 432:988-994(2004).  
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

