

TUBB3 Antibody (internal region, near N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3836a

Specification

TUBB3 Antibody (internal region, near N-Term) - Product Information

Application	WB
Primary Accession	Q13509
Other Accession	NP_006077.2 , 10381 , 22152 (mouse) , 246118 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	50433

TUBB3 Antibody (internal region, near N-Term) - Additional Information

Gene ID 10381

Other Names

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TUBB3 Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

TUBB3 Antibody (internal region, near N-Term) - 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). Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha- tubulin (PubMed:34996871). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed: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). Plays a role in dorsal root ganglion axon projection towards the spinal cord (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

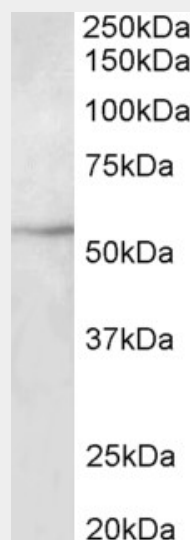
Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.

TUBB3 Antibody (internal region, near N-Term) - 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 (internal region, near N-Term) - Images



AF3836a (2 µg/ml) staining of HepG2 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

TUBB3 Antibody (internal region, near N-Term) - Background

This antibody is expected to recognize isoform 1 (NP_006077.2) only.

TUBB3 Antibody (internal region, near N-Term) - References

Class III β -tubulin expression in advanced-stage serous ovarian carcinoma effusions is associated with poor survival and primary chemoresistance. Hetland TE, Hellesylt E, Flørenes VA, Tropé C, Davidson B, Kærn J. Hum Pathol. 2011 Jul;42(7):1019-26. PMID: 21315408