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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, Cow**
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). 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}

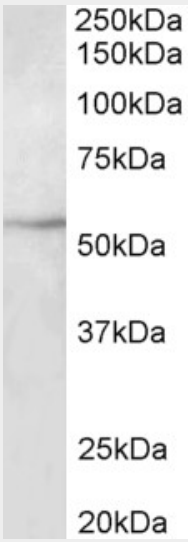
Tissue Location
Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.

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 Cytomety
- 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.

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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 ?-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