

**TUBB2B Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11940a**

**Specification**

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**TUBB2B Antibody (N-term) - Product Information**

Application	WB, IHC-P-Leica, IF,E
Primary Accession	<a href="#">Q9BVA1</a>
Other Accession	<a href="#">P02554</a> , <a href="#">P13602</a> , <a href="#">P32882</a> , <a href="#">Q3KRE8</a> , <a href="#">Q9CWF2</a> , <a href="#">Q6B856</a> , <a href="#">P85108</a> , <a href="#">Q7TMM9</a> , <a href="#">Q4R5B3</a> , <a href="#">Q13885</a> , <a href="#">P09203</a> , <a href="#">NP_821080.1</a>
Reactivity	Human, Mouse, Rat
Predicted	Chicken, Monkey, Bovine, Xenopus, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	12-39

**TUBB2B Antibody (N-term) - Additional Information**

**Gene ID** 347733

**Other Names**

Tubulin beta-2B chain, TUBB2B

**Target/Specificity**

This TUBB2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-39 amino acids from the N-terminal region of human TUBB2B.

**Dilution**

WB~~1:4000  
IHC-P-Leica~~1:2000  
IF~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

TUBB2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TUBB2B Antibody (N-term) - Protein Information**

**Name** TUBB2B

**Function** Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers (PubMed:[23001566](#), PubMed:[26732629](#), PubMed:[28013290](#)). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin. Plays a critical role in proper axon guidance in both central and peripheral axon tracts (PubMed:[23001566](#)). Implicated in neuronal migration (PubMed:[19465910](#)).

**Cellular Location**

Cytoplasm, cytoskeleton

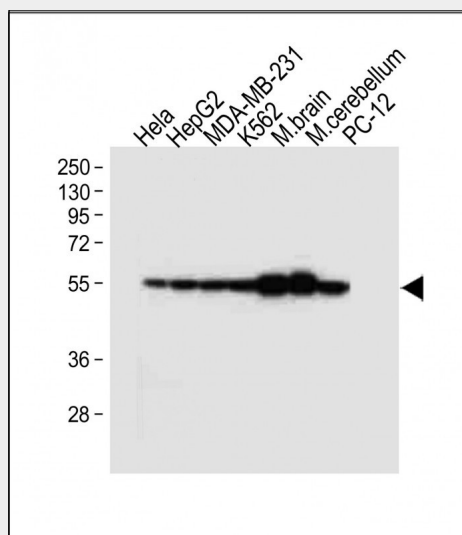
**Tissue Location**

High expression in brain.

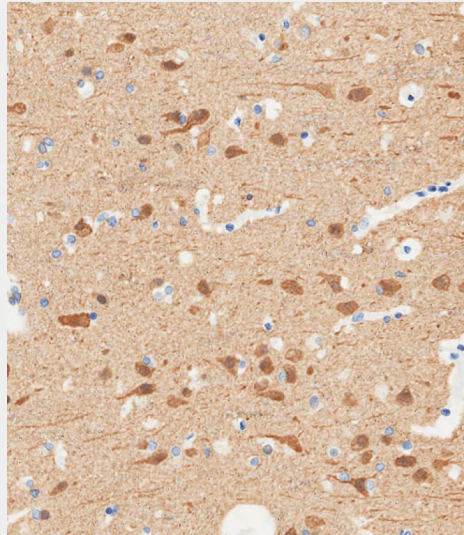
**TUBB2B Antibody (N-term) - Protocols**

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

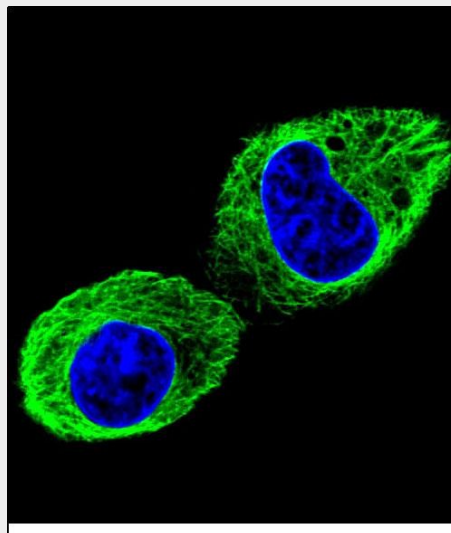
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TUBB2B Antibody (N-term) - Images**

All lanes : Anti-TUBB2B Antibody (N-term) at 1:4000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: MDA-MB-231 whole cell lysate Lane 4: K562 whole cell lysate Lane 5: Mouse brain tissue lysate Lane 6: Mouse cerebellum tissue lysate Lane 7: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Immunohistochemical analysis of paraffin-embedded Human brain tissue using AP11940A performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:2000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Confocal immunofluorescent analysis of TUBB2B Antibody (N-term)(Cat#AP11940a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

#### **TUBB2B Antibody (N-term) - Background**

The protein encoded by this gene is a beta isoform of tubulin, which binds GTP and is a major component of microtubules. This gene is highly similar to TUBB2A and TUBB2C. Defects in this gene are a cause of asymmetric polymicrogyria. [provided by RefSeq].

#### **TUBB2B Antibody (N-term) - References**

Xu, W., et al. Mol. Cancer Ther. 8(12):3318-3330(2009)  
Jaglin, X.H., et al. Nat. Genet. 41(6):746-752(2009)

Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009)  
Cucchiarelli, V., et al. Cell Motil. Cytoskeleton 65(8):675-685(2008)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)