

TUBB2B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11940a

Product Information

Application	WB, IF, IHC-P-Leica, E
Primary Accession	Q9BVA1
Other Accession	P02554 , P13602 , P32882 , Q3KRE8 , Q9CWF2 , Q6B856 , P85108 , Q7TMM9 , Q4R5B3 , Q13885 , P09203 , NP_821080.1
Reactivity	Human, Mouse, Rat
Predicted	Mouse, Rat, Monkey, Pig, Chicken, Bovine, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31679
Calculated MW	49953
Antigen Region	12-39

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 IF~~1:10~50 IHC-P-Leica~~1:2000 E~~Use at an assay dependent concentration.
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.

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.

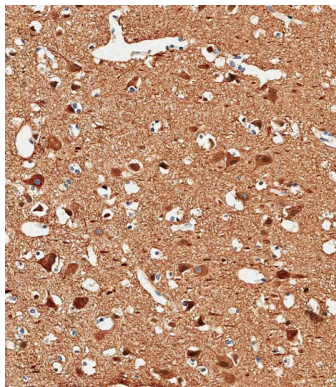
Background

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].

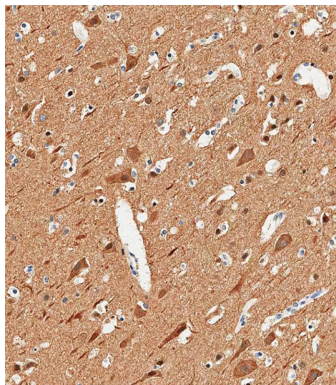
References

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)

Images

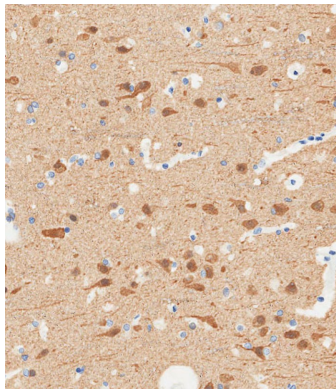


Immunohistochemical analysis of paraffin-embedded Human brain tissue using AP11940A performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:2000) for 1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

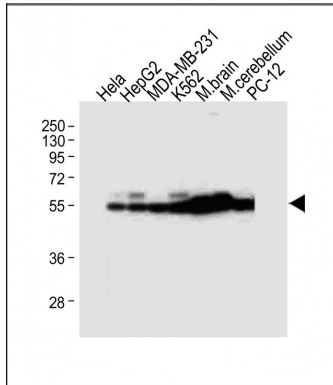


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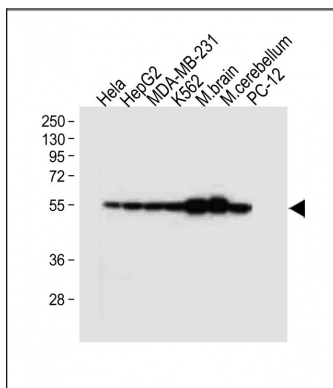
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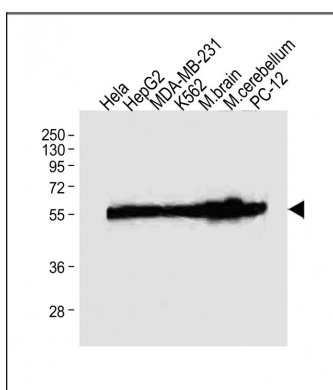
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All lanes : Anti-TUBB2B Antibody (N-term) at 1:4000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: MDA-MB-231 whole cell lysate Lane 4: K562 whole cell lysate Lane 5: Mouse brain tissue lysate Lane 6: Mouse cerebellum 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% NFDM/TBST.

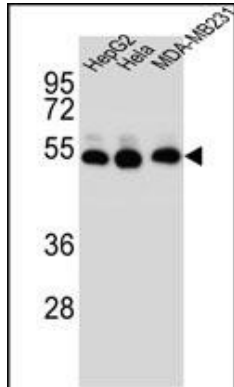
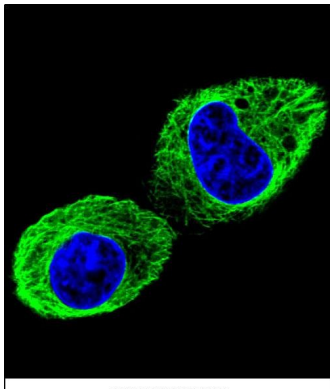


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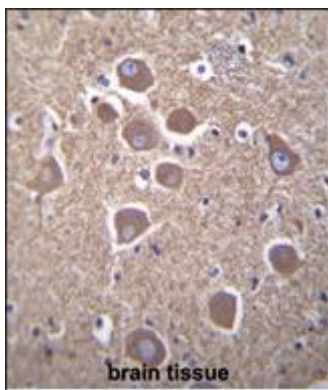


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Confocal immunofluorescent analysis of TUBB2B Antibody (N-term)(Cat#AP11940a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



TUBB2B Antibody (N-term) (Cat. #AP11940a) western blot analysis in HepG2, HeLa, MDA-MB231 cell line lysates (35ug/lane). This demonstrates the TUBB2B antibody detected the TUBB2B protein (arrow).



TUBB2B Antibody (N-term) (Cat. #AP11940a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TUBB2B Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.