# ANTIBODIES ONLINE

# Datasheet for ABIN93911 anti-TUBB3 antibody (N-Term)

9 Images

15 Publications



### Overview

0.1 mg
TUBB3
N-Term
Human, Mouse, Rat, Dog, Pig
Mouse
Monoclonal
This TUBB3 antibody is un-conjugated
Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)
Peptide (C) 441-448 coupled to maleimide-activated keyhole limpet hemocyanin via cysteine added to the N-terminus of the neuron-specific peptide.

	added to the N-terminus of the neuron-specific peptide.
Clone:	TU-20
lsotype:	lgG1
Specificity:	The antibody TU-20 recognizes C-terminal peptide sequence ESESQGPK (aa 441-448) of neuron-specific human betalll-tubulin.
Cross-Reactivity (Details):	Broad species reactivity
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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## Target Details

Target:	TUBB3
Alternative Name:	betaIII-tubulin (TUBB3 Products)
Background:	Tubulin beta 3,The betalll isoform of tubulin is present dominantly in cells of neuronal origin and it is one of the earliest markers of neuronal differentiation. It is regarded as a specific probe for the cells of neuronal origin as well as for the tumours originating from these cells. The betallI-tubulin is most abundant in cells of neuronal origin, but was also detected in Sertoli cells
	of the testis and transiently in non-neuronal embryonic tissues.,TUBB3
Gene ID:	10381
UniProt:	Q13509
Pathways:	Microtubule Dynamics, M Phase
Application Details	
Application Notes: Restrictions:	<ul> <li>Western blotting: Recommended dilution: 1-2 µg/mL, positive control: porcine brain lysate, negative control: HPB-ALL human peripheral blood leukemia cell line, reducing conditions.</li> <li>Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, standard ABC technique (DAB+), pretreatment: 0.1 % pepsin (trypsin) in 0.1 M HCl, incubation 30 min in RT, or high temperature citrate buffer antigen retrieval, positive tissue: neuronal tissue.</li> <li>Immunocytochemistry: Positive material: Neuro2a mouse neuroblastoma cell line.</li> <li>Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.</li> </ul>
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

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Letellier, Szíber, Chamma, Saphy, Papasideri, Tessier, Sainlos, Czöndör, Thoumine: "A unique intracellular tyrosine in neuroligin-1 regulates AMPA receptor recruitment during synapse differentiation and potentiation." in: **Nature communications**, Vol. 9, Issue 1, pp. 3979, (2019) (PubMed).

Gudernova, Balek, Varecha, Kucerova, Kunova Bosakova, Fafilek, Palusova, Uldrijan, Trantirek, Krejci: "Inhibitor repurposing reveals ALK, LTK, FGFR, RET and TRK kinases as the targets of AZD1480." in: **Oncotarget**, Vol. 8, Issue 65, pp. 109319-109331, (2017) (PubMed).

Szíber, Liliom, Morales, Ignácz, Rátkai, Ellwanger, Link, Szűcs, Hausser, Schlett: "Ras and Rab interactor 1 controls neuronal plasticity by coordinating dendritic filopodial motility and AMPA receptor turnover." in: **Molecular biology of the cell**, Vol. 28, Issue 2, pp. 285-295, (2017) ( PubMed).

Katsetos, Draber, Kavallaris: "Targeting βIII-tubulin in glioblastoma multiforme: from cell biology and histopathology to cancer therapeutics." in: **Anti-cancer agents in medicinal chemistry**, Vol. 11, Issue 8, pp. 719-28, (2012) (PubMed).

Gun?ova: "The neurodegenerative process in a neurotoxic rat model and in patients with Huntington's disease: Histopathological parallels and differences." in: **Acta histochemica**, (2011 ) (PubMed).

There are more publications referencing this product on: Product page

#### Images



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry staining of betallI tubulin (red) in tissue sections of murine brain expressing GFP in some of its neurons (green). Mouse monoclonal antibody TU-20 (anti-betalII tubulin) was detected with goat antimouse IgG1 conjugated with Alexa Fluor 555.

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#### Immunofluorescence

**Image 2.** Immunofluorescence staining of P-19 mouse embryonal carcinoma cell line stimulated to neuronal differentiation by retinoic acid. 2A - Microtubules decorated with neuron-specific anti-betaIII-tubulin (; red). 2B - Merged image of co-staining with anti-beta-tubulin (TU-06; green). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA-binding dye (blue). Fig. 2A Immunofluorescence staining (mouse embryonal carcinoma cells) Immunofluorescence staining (mouse embryonal carcinoma cells)

#### Immunofluorescence

**Image 3.** Immunofluorescence staining (mouse neuroblastoma cells) Immunofluorescence staining of Neuro2a mouse neuroblastoma cell line using anti-betallI-tubulin (TU-20 ; green; 3 µg/ml). Nuclei were stained with DAPI (blue).

Please check the product details page for more images. Overall 9 images are available for ABIN93911.

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