

Product Datasheet

betalll-Tubulin Antibody (orb44544)

Catalog Number	orb44544
Category	Antibodies
Description	Mouse monoclonal antibody to Tubulin beta 3
Target	betalll-Tubulin
Clonality	Monoclonal
Isotype	Mouse IgG1
Conjugation	Unconjugated
Reactivity	Canine, Human, Mouse, Porcine, Rat
Concentration	1 mg/ml
Buffer/Preservatives	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Purification	Purified by protein-A affinity chromatography.
Immunogen	Peptide (C) 441-448 coupled to maleimide-activated keyhole limpet hemocyanin via cysteine added to the N-terminus of the neuron-specific peptide.
UniProt ID	Q13509
RRID	AB_10990257
Tested applications	FC, ICC, IHC-P, WB

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Application notes

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. 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. Immunocytochemistry: Positive material: Neuro2a mouse neuroblastoma cell line. Flow cytometry: Recommended dilution: 1-4 µg/ml. Intracellular staining.

Specificity

The antibody TU-20 recognizes C-terminal peptide sequence ESESQGPK (aa 441-448) of neuron-specific human betaIII-tubulin.

Antibody Type

Primary Antibody

Clone Number

TU-20

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.

Note

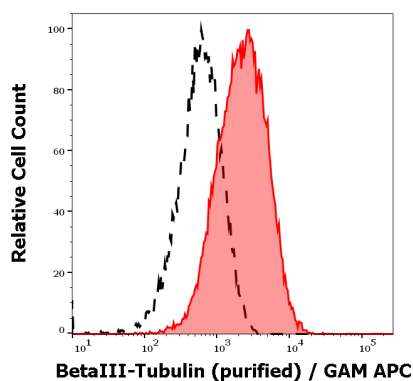
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Entrez

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Expiration Date

12 months from date of receipt.



Separation of MCF-7 cells stained using anti-betaIII-Tubulin (TU-20) purified antibody (concentration in sample 9 µg/ml, GAM APC, red-filled) from MCF-7 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).

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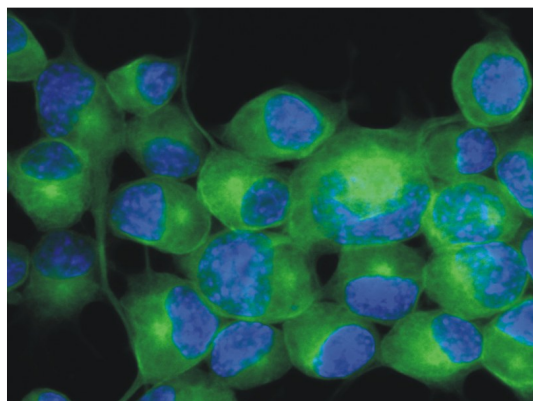
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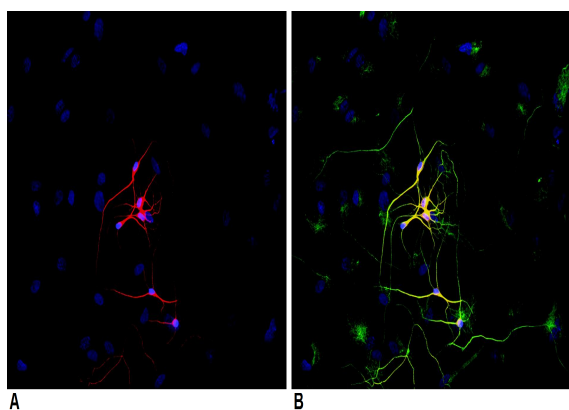
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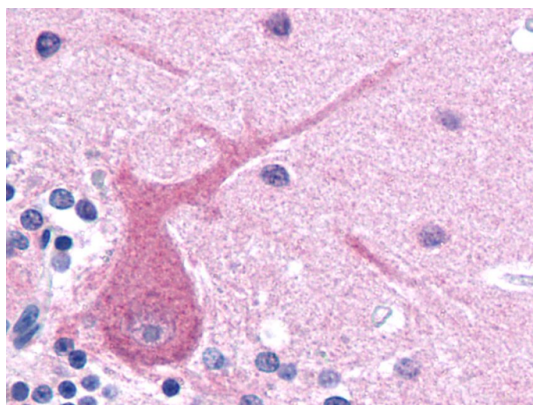
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Immunocytochemistry staining of Neuro2a mouse neuroblastoma cell line using anti-betaIII-tubulin (TU-20; green; 3 µg/ml). Nuclei were stained with DAPI (blue).



Immunocytochemistry staining of P-19 mouse embryonal carcinoma cell line stimulated to neuronal differentiation by retinoic acid. A - Microtubules decorated with neuron-specific anti-betaIII-tubulin (TU-20; red). B - Merged image of co-staining with anti-beta-tubulin (TU-06; green; cat. no. orb44535). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA-binding dye (blue).



Immunohistochemistry staining of human brain (paraffin sections) using anti-betaIII tubulin (TU-20).

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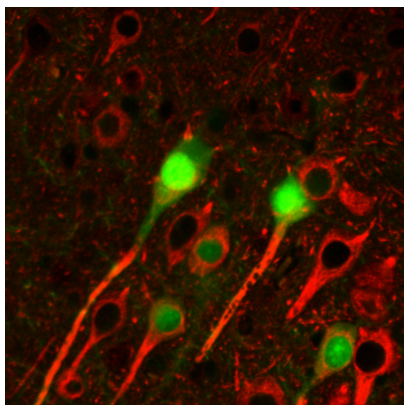
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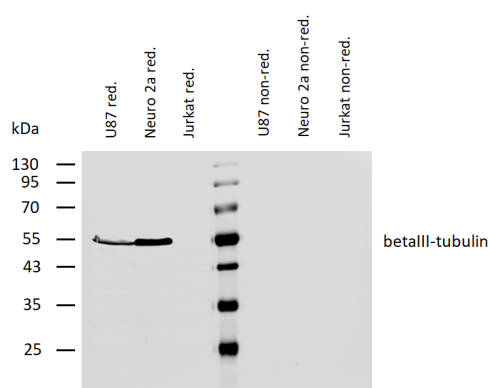
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Immunohistochemistry staining of betaIII tubulin (red) in tissue sections of murine brain expressing GFP in some of its neurons (green). Mouse monoclonal antibody TU-20 (anti-betaIII tubulin) was detected with goat anti-mouse IgG1 conjugated with Alexa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



Western blotting analysis of human betaIII-tubulin using mouse monoclonal antibody TU-20 on lysates of U87 cells and Neuro 2a cells (and Jurkat cells as a negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-betaIII-tubulin monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for betaIII-tubulin at approximately 55 kDa.

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