

## Product datasheet for **BM170S**

### beta III Tubulin (TUBB3) Mouse Monoclonal Antibody [Clone ID: TU-20]

#### Product data:

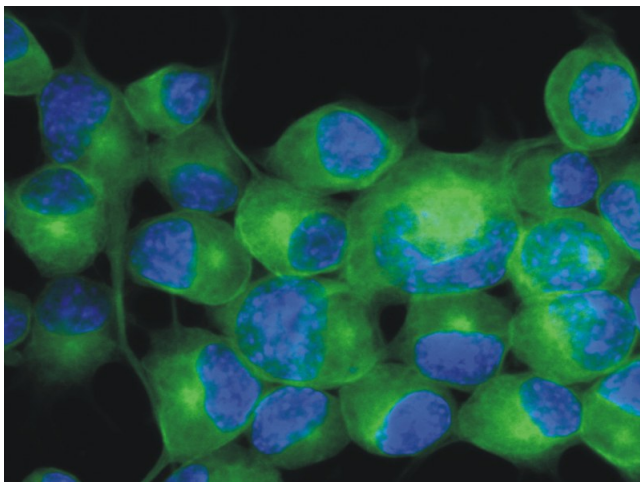
Product Type:	Primary Antibodies
Clone Name:	TU-20
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot:</b> 1-2 µg/ml, 90 min ( <i>Reducing conditions</i> ). <i>Positive Control:</i> Porcine brain lysate. <i>Negative Control:</i> HPB-ALL peripheral blood leukemia cell line. <i>Sample Preparation:</i> Mix lysate with reducing Laemmli SDS-PAGE sample buffer. <b>Flow Cytometry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 10 µg/ml. <i>Staining Technique:</i> Standard ABC technique (DAB+). <i>Pretreatment:</i> 0.1% pepsin (trypsin) in 0.1 M HCl, incubation 30 min in RT or high temperature citrate buffer antigen retrieval. <i>Positive tissue:</i> Neuronal tissue. <b>Immunocytochemistry.</b> <i>Positive Material:</i> Neuro2a mouse neuroblastoma cell line.
Reactivity:	Broad
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide (C) 441-448 coupled to Maleimide-activated Keyhole Limpet Hemocyanin via Cysteine added to the N-terminus of the neuron-specific peptide.
Specificity:	This antibody recognizes the C-terminal peptide sequence ESESQGPK (aa 441-448) of Human class III β-tubulin specific for neurones. The antibody is a highly specific marker for neuronal tissue. TU-20 is very useful for the detection of microtubule structures on fixed cells. This Monoclonal antibody TU-20 is widely cross-reactive among species (recognized epitope conserved within all species).



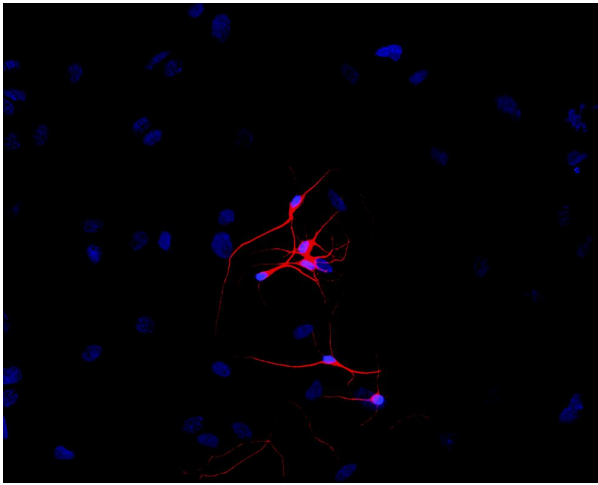
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<b>Formulation:</b>	PBS, pH~7.4 State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Ammonium Sulphate and Caprylic Acid Precipitation
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	tubulin beta 3 class III
<b>Database Link:</b>	<a href="#">Q13509</a>
<b>Background:</b>	The beta-III Tubulin isotype is present dominantly in cells of neuronal origin and it is one of the earliest marker of neuronal differentiation. Class III beta-tubulin, is regarded as a specific probe for the cells of neuronal origin as well as for the tumours originating from these cells. The neuron-associated class III beta-tubulin isotype 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.
<b>Synonyms:</b>	Tubulin beta-3 chain, Tubulin beta-III, Tubulin beta-4

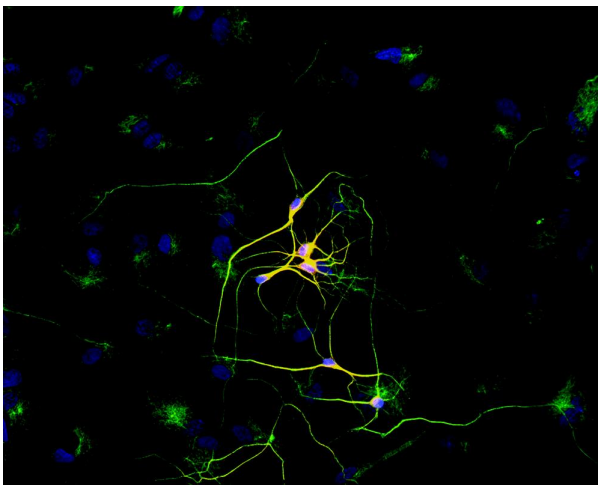
### Product images:



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



Immunofluorescence 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). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA-binding dye (blue).



Immunofluorescence 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). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA-binding dye (blue).