Monoclonal Antibody to betaIII-tubulin
Purified Antibody (0.025 mg)

Clone: TU-20
Isotype: Mouse IgG1
Specificity: The antibody TU-20 recognizes C-terminal peptide sequence ESESQGPK (aa 441-448) of neuron-specific human betaIII-tubulin.
Regulatory Status: RUO
Immunogen: Peptide (C) 441-448 coupled to maleimide-activated keyhole limpet hemocyanin via cysteine added to the N-terminus of the neuron-specific peptide.
Species Reactivity: Broad species reactivity
Application: Flow Cytometry
Western Blotting
Recommended dilution: 1-2 µg/ml, 90 min
Positive control: Porcine brain lysate
Negative control: HPB-ALL human peripheral blood leukemia cell line
Sample preparation: Mix lysate with reducing Laemmli SDS-PAGE sample buffer.
Application note: Reducing conditions.
Immunohistochemistry (paraffin sections)
Recommended dilution: 10 µg/ml
Staining technique: 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
Purity: > 95% (by SDS-PAGE)
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label
Background: The betaIII-tubulin isoform 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 betaIII-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.
References:


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