Monoclonal Antibody to betaIII-tubulin
Fluorescein (FITC) conjugated (0.1 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
Preparation: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage: Immunocytochemistry on fixed and permeabilized cells. Suggested working dilution is 1:40.
The conjugate was also successfully used on paraffin sections using confocal microscopy. It is recommended that the user titrates the reagent for use in the particular testing system.
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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