

TECHNICAL DATA SHEET

CyFlow™ Beta3-tubulin Purified Clone TU-20

REF BT516409

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	β3-tubulin
Alternative Names	—
Clone	TU-20
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Broad Spectrum
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
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

The mouse monoclonal antibody TU-20 recognizes C-terminal peptide sequence ESESQGPK (aa 441-448) of neuron-specific human β3-tubulin.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunohistochemistry (paraffin-embedded sections)
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

The β 3-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 tumors originating from these cells. The β 3-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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- Peknicova J, Kubatova A, Sulimenko V, Draberova E, Viklicky V, Hozak P, Draber P: Differential subcellular distribution of tubulin epitopes in boar spermatozoa: recognition of class III beta-tubulin epitope in sperm tail. Biol Reprod. 2001 Sep; 65(3):672-9. < PMID: 11514327 >
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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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