

anti-human betaIII Tubulin FITC-conjugated

FITC-conjugated Monoclonal Antibody TU20 to betaIII Tubulin (Human)

Cat-No: 21276203

0.1 mg

Clone: TU20

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

Isotype subclass: Mouse IgG1

Form: The purified antibody is conjugated with Fluoresceinisothiocyanate (FITC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 2 - 8 °C. Do not freeze!

Application: Flow Cytometry

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:

*Katsetos CD, Draberova E, Smejkalova B, Reddy G, Bertrand L, de Chadarevian J-P, Legido A, Nissanov J, Baas PW, Draber P: Class III β -Tubulin and β -Tubulin are Co-expressed and form Complexes in Human Glioblastoma Cells. *Neurochem Res* (2007) 32:1387-1398.

*Kukharskyy V, Sulimenko V, Macůrek L, Sulimenko T, Dráberová E, Dráber P: Complexes of gamma-tubulin with nonreceptor protein tyrosine kinases Src and Fyn in differentiating P19 embryonal carcinoma cells. *Exp Cell Res*. 2004 Aug 1;298(1):218-28.

*Theodorou E, Dalembert G, Heffelfinger C, White E, Weissman S, Corcoran L, Snyder M: A high throughput embryonic stem cell screen identifies Oct-2 as a bifunctional regulator of neuronal differentiation. *Genes Dev*. 2009 Mar 1;23(5):575-88.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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