

Product Information

Anti- β -Tubulin III

produced in rabbit, affinity isolated antibody

Catalog Number **T3952**

Synonym: Anti-Tuj 1

Product Description

Anti- β -Tubulin III is produced in rabbit using as immunogen a synthetic peptide corresponding to residues 151-165 [LISKVREEYPDRIMN] of human β -Tubulin III (GeneID 10381). The antibody is affinity-purified.

Anti- β -Tubulin III recognizes human β -Tubulin III. Applications include the detection of β -Tubulin III by immunoblotting (~50 kDa), immunohistochemistry and flow cytometry.

The β -tubulin III protein (also known as Tuj 1) belongs to the tubulin superfamily. It is abundant in the brain, where it is expressed almost exclusively in neurons after differentiation. There are significant post-translational modifications made to β -tubulin III with numerous isoforms present during early post-natal neural development. Altered patterns of expression are noted in brain tumors, such as medulloblastomas.

Reagent

Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to three months. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

Product Profile

Immunoblotting: a working dilution of 1:500 to 1:1,000 is recommended.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References

1. Piper, D.R., et al., Identification and characterization of neuronal precursors and their progeny from human fetal tissue. *J Neurosci Res.* **66(3)**: 356-368 (2001).
2. Encinas, J.M., and Enikolopov, G., Identifying and quantitating neural stem and progenitor cells in the adult brain. *Methods Cell Biol.* **85**: 243-272 (2008).
3. Robertson, M.J., et al., Neural stem cell engineering: directed differentiation of adult and embryonic stem cells into neurons. *Front Biosci.* **13**: 21-50 (2008).

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