

Monoclonal anti-human Tubulin Beta 3 antibody (clone AT2F5)

Mouse IgG₁, κ

Cat. No. IBATGA0343

Immunogen: Recombinant human TUBB3 (1-450aa) purified from *E. coli*

NCBI Accession No.: NP_006077

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human Tubulin Beta 3 mAb, clone AT2F5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TUBB3 protein.

Description: Tubulin Beta 3 is 450 amino acid protein. Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. TUBB3 plays a critical role in proper axon guidance and maintenance. Its expression is primarily restricted to central and peripheral nervous system.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000. Recommended dilution range for ICC/IF and Flow cytometry is 1:200.

Application: ELISA, WB, ICC/IF, Flow cyt

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:
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Product information

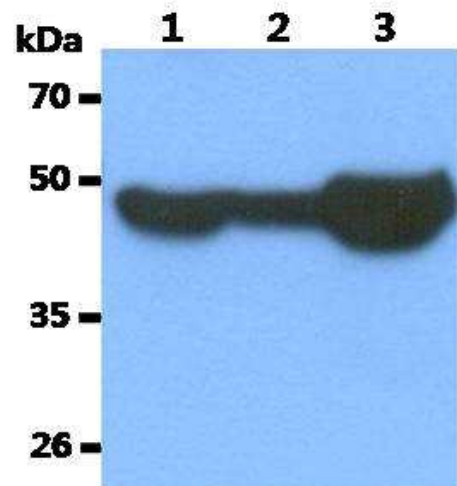
Western blot analysis

The Cell lysates (40ug) and Mouse tissue extract (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Tubulin Beta 3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

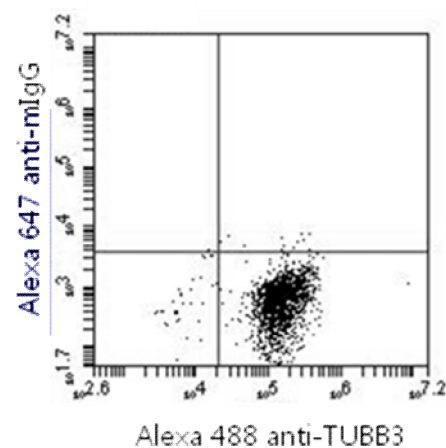
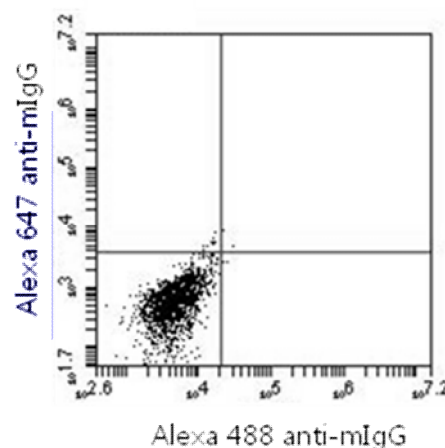
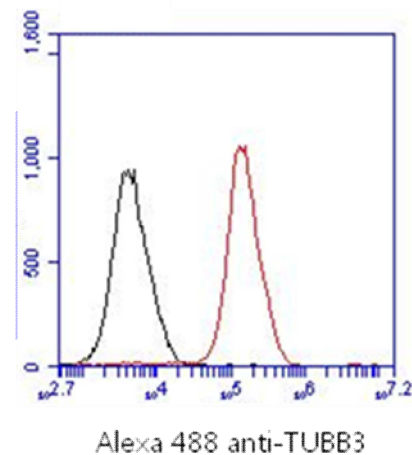
Lane 2.: 293T cell lysate

Lane 3.: Mouse Brain tissue extract



Flow cytometry

Flow cytometry analysis of Tubulin Beta 3 in U-87MG cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

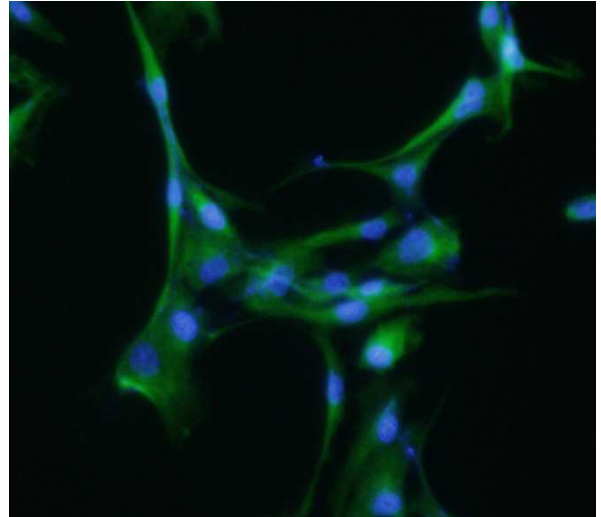


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ICC/IF analysis

ICC/IF analysis of Tubulin Beta 3 in U-87MG cells, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Tubulin Beta 3 antibody (1:200) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Qu C., *et al.* (2013) *J Cell Sci.* **126(14)**: 3070-3081
Marczak A., *et al.* (2015) *Postepy Hig Med Dosw.* **69**: 158-164
McCarroll J.A., *et al.* (2015) *Cancer Res.* **75(2)**: 415-425

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