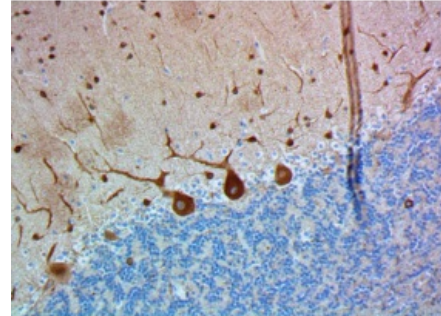


Purified anti-Tubulin β 3 (TUBB3)

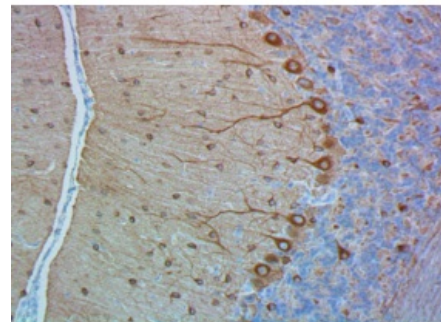
Catalog # / Size: 4606065 / 25 μ l
Clone: TUJ1
Isotype: Mouse IgG2a
Immunogen: This antibody was raised against microtubules derived from rat brain.
Reactivity: Human, Mouse, Rat
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution + 0.03% Thimerosal.
Concentration: 1 mg/ml



IHC staining of purified anti-Tubulin β 3 (TUBB3) antibody (clone TUJ1) on formalin-fixed paraffin-embedded human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 1 μ g/ml of the

Applications:

Applications: Flow Cytometry, Immunofluorescence, Immunohistochemistry, Other
Recommended Usage: Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 1.0 – 5.0 μ g/ml is suggested. For Western blotting, the suggested use of this reagent is 1.0 – 5.0 μ g/ml. For immunocytochemistry, a concentration range of 1.0 – 5.0 μ g/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes: Additional reported applications (for the relevant formats) include: flow cytometry⁴, immunofluorescence microscopy^{1-5,7}, immunohistochemistry^{5,7}, and Western blotting⁸.



IHC staining of purified anti-Tubulin β 3 (TUBB3) antibody (clone TUJ1) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 0.5 μ g/ml of the

This antibody is well characterized and highly reactive to neuron specific Class III β -tubulin (β III). TUJ1 does not identify β -tubulin found in glial cells. TUJ1 recognizes an epitope located within the last 15 C-terminal residues⁸.

- Application** 1. Zhao X, *et al.* 2017. Med Sci Monit. 22: 3915.
References: 2. Lebok P, *et al.* 2016. Oncol Lett. 11(3):1987.
3. Du J, *et al.* 2015. BMC Cancer. 15:536.

Description: Tubulin is the main component of microtubules. In adults, tubulin beta 3 (TUBB3) is primarily expressed in neurons and is commonly used as a neuronal marker. It plays an important role in neuronal cell proliferation and differentiation. Mutations in this gene cause congenital fibrosis of the type 3 extraocular muscles. Tubulin beta 3 (TUBB3) is also found in a wide range of tumors. Studies indicate that it is a predictive and prognostic marker in various tumors.

- Antigen** 1. Zhao X, *et al.* 2017. Med Sci Monit. 22: 3915.
References: 2. Lebok P, *et al.* 2016. Oncol Lett. 11(3):1987.
3. Du J, *et al.* 2015. BMC Cancer. 15:536.
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