

## 36-2029: Anti-Tubulin beta 3 / TUBB3 (Neuronal & Stem Cell Marker) Monoclonal Antibody (Clone: TUBB3/3731)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TUBB3/3731
<b>Application :</b>	WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	TUBB3
<b>Gene ID :</b>	10381
<b>Uniprot ID :</b>	Q13509
<b>Alternative Name :</b>	beta 3 tubulin; CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; M(beta)3; M(beta)6; MC1R; Neuron specific beta III Tubulin; Neuron-specific class III beta-tubulin; TUBB3; TUBB4; Tubulin beta-3; Tubulin beta-4; Tubulin beta-III
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	A synthetic peptide (aa 437-450) of human Tubulin beta 3 protein (TUBB3); coupled to KLH.

### Description

This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. 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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

### Application Note

Western Blotting (1-2ug/ml); Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),

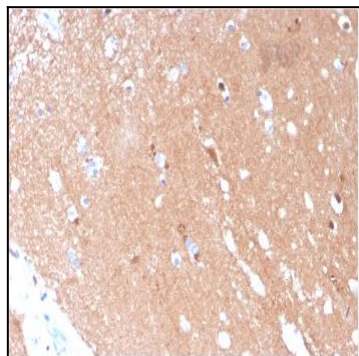


Fig.1: Formalin-fixed, paraffin-embedded human Brain stained with Tubulin beta 3 Mouse Monoclonal Antibody (TUBB3/3731).

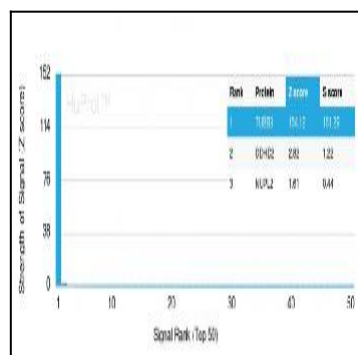


Fig. 2: Analysis of Protein Array containing more than 21,000 full-length human proteins using Tubulin beta 3 Mouse Monoclonal Antibody (TUBB3/3731) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.