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anti-TUBB3 antibody (AA 437-450)



Overview

Images



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Quantity:	100 μg	

rarget.	IUDD3

Binding Specificity:	AA 437-450

Reactivity:	Human, Synthetic
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Host:	Mouse
Host:	Mouse

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Conjugate:	This TUBB3 antibody is un-conjugated
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Application:	Western Blotting (W	VB), Immunohistochemistry (Formalin-fixed Sections	i) (IHC (f)))

Product Details

Immunogen:	A synthetic peptide (aa 437-450) of human Tubulin beta 3 protein (TUBB3), coupled to KLH.
Clone:	TUBB3-3731
Isotype:	IgG1
Specificity:	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

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.

Cross-Reactivity (Details): Human. Others not known.

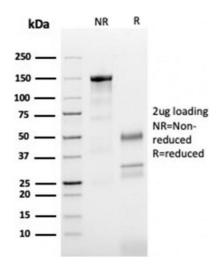
Product Details Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. **Target Details** Target: TUBB3 Alternative Name TUBB3 (TUBB3 Products) Background: Beta 3 tubulin, CDCBM, CDCBM1, CFEOM3, CFEOM3A, FEOM3, M(beta)3, M(beta)6, MC1R, Neuron specific beta III Tubulin, Neuron-specific class III beta-tubulin, TUBB3, TUBB4, Tubulin beta-3, Tubulin beta-4, Tubulin beta-III, Tubulin beta 3 / TUBB3 (Neuronal & Stem Cell Marker) Cellular localisation: Cytoplasmic 55kDa Molecular Weight: Gene ID: 10381, 511743 UniProt: Q13509 Pathways: Microtubule Dynamics, M Phase **Application Details Application Notes:** Positive Control: U87, A375, Raji, HEP2 cells. Brain and Testis Known Application: Western Blotting (1-2 µg/mL), Immunohistology (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. For Research Use only Restrictions: Handling Concentration: 200 μg/mL Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide. Preservative: Sodium azide Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. 4 °C,-80 °C Storage: Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also

available WITHOUT BSA & azide at 1.0mg/ml.

Expiry Date:

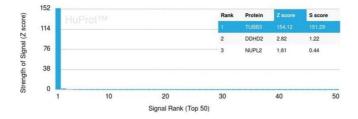
24 months

Images



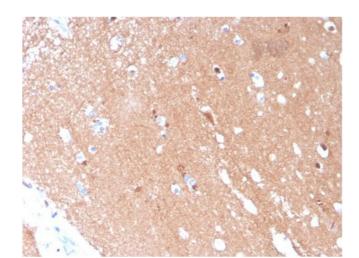
Western Blotting

Image 1. SDS-PAGE Analysis Purified Tubulin beta 3 Mouse Monoclonal Antibody (TUBB3/3731). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 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 combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. Sscore 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.

Immunohistochemistry

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