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DATA SHEET

Mouse Anti-Tubulin III Beta [UBB3/3732]: MC0163, MC0163RTU7

Intended Use: For Research Use Only

Description: Tubulin is a major cytoskeleton component that has five distinct forms, designated α, β, γ, δ and ε tubulin. α and β Tubulins form heterodimers which multimerize to form a microtubule filament. Multiple β Tubulin isoforms (β1, β2, β3, β4, β5, β6 and β8) have been characterized and are expressed in mammalian tissues. β1 and β4 are present throughout the cytosol, β2 is present in the nuclei and nucleoplasm, and β3 is a neuron-specific cytoskeletal protein. γ Tubulin forms the gammasome, which is required for nucleating microtubule filaments at the centrosome. Both δ Tubulin and ε Tubulin are associated with the centrosome. δ Tubulin is a homolog of the Chlamydomonas δ Tubulin Uni3 and is found in association with the centrioles, whereas ε Tubulin localizes to the pericentriolar material. ε Tubulin exhibits a cell cycle-specific pattern of localization; first associ-ating with only the older of the centrosomes in a newly duplicated pair, and later associating with both centrosomes.

Specifications

Clone:	UBB3/3732
Source:	Mouse
Isotype:	IgG2a/k
Reactivity:	Human
Immunogen:	Synthetic human Tubulin beta 3 protein peptide aa 437-450, coupled to KLH
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH 7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

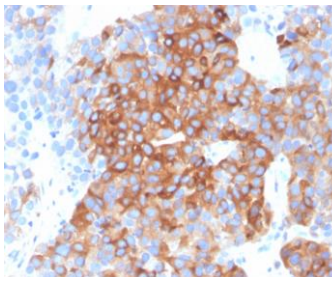
Package:

Description	Catalog No.	Size
Tubulin III Beta Concentrated	MC0163	1 ml
Tubulin III Beta Prediluted	MC0163RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Brain
Concentrated Dilution:	50-250
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human bladder carcinoma stained with anti-Tubulin III Beta using DAB

References:

1. A single allele of Hdac2 but not Hdac1 is sufficient for normal mouse brain development in the absence of its paralog. Hagelkruys, A et al. Development 141:604-16. 2014.
2. Accelerated high-yield generation of limb-innervating motor neurons from human stem cells. Amoroso MW, et al. J Neurosci 33:574-86, 2013.
3. Regional hippocampal differences in AKT survival signaling across the lifespan: implications for CA1 vulnerability with aging. Jackson TC, et al. Cell Death Differ 16:439-48, 2009.

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