

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TA500047BM

# beta III Tubulin (TUBB3) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI5H2]

### **Product data:**

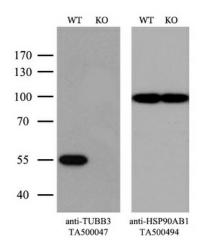
Product Type:	Primary Antibodies
Clone Name:	OTI5H2
Applications:	WB
Recommended Dilution:	WB 1:1000~2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-150 of human TUBB3 (NP_006077) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50.3 kDa
Gene Name:	tubulin beta 3 class III
Database Link:	<u>NP_006077</u> <u>Entrez Gene 22152 MouseEntrez Gene 246118 RatEntrez Gene 10381 Human</u> <u>Q13509</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	beta III Tubulin (TUBB3) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI5H2] – TA500047BM
Background:	Tubulin is the major building block of microtubules. This intracellular cylindrical filamentous structure is present in almost all eukaryotic cells. Microtubules function as structural and mobile elements in mitosis, intracellular transport, flagellar movement, and the cytoskeleton. Except in the simplest eukaryotes, tubulin exists in all cells as a mixture of similar, but not identical, sets of alpha and beta tubulin polypeptides. Within either set of polypeptides, individual subunits diverge from each other (both within and across species) at less than 10% of the amino acid positions. The most extreme diversity is localized to the 15 residues of the carboxy terminal. For beta tubulin five evolutionarily conserved isotype clones have been identified. These are almost totally conserved in the subunits utilized in the same cell types of different species, with the exception of the hematopoietic beta tubulin which is the most highly divergent in sequence and is not conserved between species. Research has been centered around the hypothesis that these beta tubulin isotypes of tubulin differ from each other in their ability to polymerize into microtubules.
Synonyms:	beta-4; CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; TUBB4
Protein Families	: Druggable Genome, ES Cell Differentiation/IPS
Protein Pathway	s: Gap junction, Pathogenic Escherichia coli infection

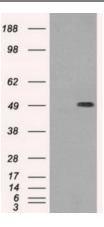
## **Product images:**



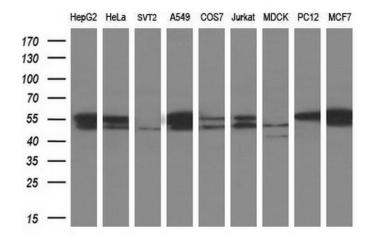
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and TUBB3-Knockout Hela cells (KO, Cat# [LC810307]) were separated by SDS-PAGE and immunoblotted with anti-TUBB3 monoclonal antibody [TA500047]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

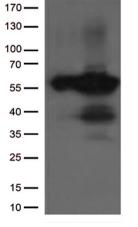




HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TUBB3 (Cat# [RC200755], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TUBB3 (Cat# [TA500047]). Positive lysates [LY416872] (100ug) and [LC416872] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TUBB3 monoclonal antibody at 1:200. (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human)



mBrain rBrain

Western blot analysis of extracts (35ug) from 2 different tissues by using anti-TUBB3 monoclonal antibody (1:500).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US