TUBB3 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TUBB3, Blocking Peptide
Full Product Name	TUBB3 Peptide - C-terminal region
Product Gene Name	TUBB3 blocking peptide
Product Synonym Gene Name	CFEOM3A; MC1R; TUBB4; beta-4; CDCBM
Sequence	EGMDEMEFTE AESNMNDLVS EYQQYQDATA EEEGEMYEDD EEESEAQGPK
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	TUBB3 peptide (MBS3241070) is used for blocking the activity of TUBB3 antibody (MBS3216170)
Molecular Weight	50kDa
OMIM	600638
Product Categories/Family for TUBB3 blocking peptide	Peptide
Applications Tested/Suitable for TUBB3 blocking peptide	Western Blot (WB)
Related Product Information for TUBB3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-TUBB3 Antibody, made Target 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. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6.
Other Notes	Small volumes of TUBB3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TUBB3 purchase	MBS3241070 is a blocking peptide targeting TUBB3. Also known as TUBB3 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TUBB3. It may not necessarily be applicable to this product.

NCBI GI #	50592996
NCBI GeneID	10381
NCBI Accession #	NP_006077
UniProt Primary Accession #	Q13509
UniProt Related Accession #	Q13509
GenBank Nucleotide #	NM_006086

NCBI Official Full Name	tubulin beta-3 chain isoform 1
NCBI Official Synonym Full Names	tubulin beta 3 class III
NCBI Official Symbol	TUBB3
NCBI Official Synonym Symbols	CDCBM; FEOM3; TUBB4; CDCBM1; CFEOM3; beta-4; CFEOM3A
UniProt Protein Name	Tubulin beta-3 chain
UniProt Synonym Protein Names	Tubulin beta-4 chain; Tubulin beta-III
Protein Family	Tubulin
UniProt Gene Name	TUBB3
UniProt Synonym Gene Names	TUBB4
UniProt Entry Name	TBB3_HUMAN
NCBI Protein Information	tubulin beta-3 chain
NCBI Summary for TUBB3	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. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Oct 2010]
UniProt Comments for TUBB3	TUBB3: Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. TUBB3 plays a critical role in proper axon guidance and mantainance. Dimer of alpha and beta chains. Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues. Belongs to the tubulin family. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: microtubule; cell soma; axon; cytoplasm; dendrite; nucleus Molecular Function: GTPase activity; protein binding; GTP binding; structural constituent of cytoskeleton; peptide binding Biological Process: protein polymerization; axon guidance; mitosis; 'de novo' posttranslational protein folding; cellular protein metabolic process; protein folding; transmembrane transport; microtubule-based process Disease: Fibrosis Of Extraocular Muscles, Congenital, 3a, With Or Without Extraocular Involvement; Cortical Dysplasia, Complex, With Other Brain Malformations 1
Research Articles on TUBB3	**1.** TUBB3 is expressed in a subgroup of colorectal neoplasms; suppression of TUBB3 potentially sensitizes neoplastic cells to taxanes
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