# TUBB3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | TUBB3, Blocking Peptide |
| **Full Product Name** | TUBB3 Blocking Peptide |
| **Product Gene Name** | TUBB3 blocking peptide |
| **Product Synonym Names** | beta 3 tubulin; beta-4; CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; M(beta)3; M(beta)6; MC1R; Neuron specific beta III Tubulin; Neuron-specific class III beta-tubulin; QccE-11995; QccE-15186; TBB3_HUMAN; Tubb 3; TUBB3; TUBB4; Tubulin beta 3; Tubulin beta 3 chain; Tubulin beta 4; Tubulin beta III; Tubulin beta-3 chain; Tubulin beta-4 chain; Tubulin beta-III |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml. |
| **Purity/Purification** | The purity is >90%,tested by HPLC and MS. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Molecular Weight** | 50,433 Da |
| **Chromosome Location** | Chromosome: 16; NC_000016.9 (89988417..90002505). Location: 16q24.3 |
| **OMIM** | 600638 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Notes** | For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for TUBB3 blocking peptide** | Blocking/Control |
| **Related Product Information for TUBB3 blocking peptide** | Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody. |
| **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** | MBS9620186 is a blocking peptide targeting TUBB3. |

## ADDITIONAL DETAILS

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

| | |
|---|---|
| **NCBI GI #** | 308235963 |
| **NCBI GeneID** | 10381 |
| **NCBI Accession #** | NP_001184110.1 |
| **UniProt Primary Accession #** | Q13509 |

| | |
|---|---|
| **UniProt Secondary Accession #** | Q9BTZ0; Q9BW10; A8K854 |
| **UniProt Related Accession #** | Q13509 |
| **GenBank Nucleotide #** | NM_001197181.1 |
| **NCBI Official Full Name** | tubulin beta-3 chain isoform 2 |
| **NCBI Official Synonym Full Names** | tubulin, beta 3 class III |
| **NCBI Official Symbol** | TUBB3 |
| **NCBI Official Synonym Symbols** | CDCBM; TUBB4; 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; tubulin beta-III; tubulin beta-4 chain; class III beta-tubulin |
| **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.<br><br>Protein type: Motility/polarity/chemotaxis; Cytoskeletal<br><br>Chromosomal Location of Human Ortholog: 16q24.3<br><br>Cellular Component: microtubule; cell soma; axon; cytoplasm; dendrite; nucleus<br><br>Molecular Function: GTPase activity; protein binding; GTP binding; structural constituent of cytoskeleton; peptide binding<br><br>Biological Process: protein polymerization; axon guidance; mitosis; 'de novo' posttranslational protein folding; cellular protein metabolic process; protein folding; transmembrane transport; microtubule-based process<br><br>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.** A novel syndrome caused by E410K amino acid substitution in TUBB3 is linked to Kallmann syndrome, cyclic vomiting and Moebius syndrome. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |

| | |
|---|---|
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/tubb3/9620186