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KD-Validated Anti-Tubulin Beta 3 Class III Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1713

Product Information

Application	WB, FC
Primary Accession	Q13509
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1740
Calculated MW	50433
Gene Name	TUBB3
Aliases	TUBB3; Tubulin Beta 3 Class III; CFEOM3A; Beta-4; CFEOM3; Class III Beta-Tubulin; Tubulin Beta-3 Chain; Tubulin Beta-4 Chain; Tubulin Beta-III; Tubulin, Beta 3; FEOM3; TUBB4; Fibrosis Of Extraocular Muscles, Congenital, 3; CDCBM1; CDCBM
Immunogen	A synthesized peptide derived from human beta Tubulin III

Additional Information

Gene ID	10381
Other Names	Tubulin beta-3 chain, Tubulin beta-4 chain, Tubulin beta-III, TUBB3, TUBB4

Protein Information

Name	TUBB3
Synonyms	TUBB4
Function	Tubulin is the major constituent of microtubules, protein filaments consisting of alpha- and beta-tubulin heterodimers (PubMed:34996871, PubMed:38305685, PubMed:38609661). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed:34996871, PubMed:38305685, PubMed:38609661). Below the cap, alpha-beta tubulin heterodimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin (PubMed:34996871, PubMed:38609661). TUBB3 plays a critical role in proper axon guidance and maintenance (PubMed:20074521). Binding of NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed:28483977). Plays a role in dorsal root ganglion axon projection towards the spinal cord (PubMed:28483977).

Cellular Location	Cytoplasm, cytoskeleton. Cell projection, growth cone {ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q9ERD7}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q9ERD7}
Tissue Location	Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.

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