Recombinant Human TUBB, GST-tagged

Cat. No. TUBB-4892H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TUBB1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	TUBB1 or tubulin-beta 1 protein is a major constituent of microtubules. TUBB1 interaction with microtubule-associated proteins (MAPs) such as tau is fundamental for microtubule structure and function. Previous work suggested that the "microtubule binding domain" of tau (composed of three or four imperfect 18-amino acid repeats, separated by 13- or 14-amino acid inter-repeat regions) can bind to the C-terminal ends of both alpha and beta tubulin monomers. Studies revealed that TUBB1 is the target of various antitubulin agents used in the treatment of cancer. Subsequent studies have also concluded that TUBB1 mutations in clinical samples are rare, and unlikely to contribute to drug resistance.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~76 kDa
Purity	The purity was determined to be >85% by densitometry.
Applications	Kinase Assay; Western Blot

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Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 ug/ul

GENE INFORMATION

Gene Name	TUBB tubulin, beta class I [Homo sapiens (human)]
Official Symbol	TUBB
Synonyms	TUBB; M40; TUBB1; TUBB5; OK/SW-cl.56; tubulin, beta class I; tubulin beta chain; beta1-tubulin; beta 5-tubulin; beta-4 tubulin; beta Ib tubulin; class I beta-tubulin; tubulin beta-1 chain; tubulin beta-5 chain; tubulin beta polypeptide; tubulin, beta polypeptide
Gene ID	203068
mRNA Refseq	NM_178014
Protein Refseq	NP_821133
MIM	191130
UniProt ID	P07437
Chromosome Location	6p21.33
Pathway	Centrosome maturation; G2/M Transition; Loss of Nlp from mitotic centrosomes

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Function	GTP binding; GTPase activity; MHC class I protein binding

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