

Recombinant Human TUBB protein, GST-tagged

Cat. No. TUBB-27482TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TUBB fused with GST tag at N-terminal was expressed in E. coli.
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 (1). 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	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~76 kDa
Purity	>85%
Applications	Kinase Assay, Western Blot

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Stability	1 year store at -70 centigrade from the date of shipment
Storage	Store product at -70 centigrade. 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	0.2µg/µl
GENE INFORMATION	
Gene Name	TUBB tubulin, beta class I [Homo sapiens]
Official Symbol	TUBB
Synonyms	TUBB; tubulin, beta class I; tubulin, beta , tubulin, beta polypeptide; tubulin beta chain; beta1 tubulin; class I beta tubulin; M40; MGC16435; OK/SW cl.56; Tubb5; 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; TUBB1; TUBB5; OK/SW-cl.56; MGC117247;
Gene ID	203068
mRNA Refseq	NM_178014
Protein Refseq	NP_821133
MIM	191130
UniProt ID	P07437
Chromosome	6p21.33

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Location
Pathway

Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem;

Function

GTP binding; GTPase activity; MHC class I protein binding; nucleotide binding; peptide binding; protein complex binding; structural constituent of cytoskeleton; structural molecule activity;



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