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Datasheet for 009-001-U24S

Tubulin beta (TUBB1) protein-GST fusion

Overview

Description:	Tubulin beta (TUBB1) recombinant protein-GST fusion protein - 009-001-U24S
Item No.:	009-001-U24S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	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 (2). TUBB1 Protein is ideal for investigators involved in Signaling Proteins, Microtubule/Actin Associated Proteins, Cardiovascular Disease, and Neurobiology research.
Synonyms:	M40, TUBB, TUBB5, MGC16435, MGC117247, OK/SW-cl.56, Tubulin beta chain, Tubulin beta-5 chain
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	TUBB
Purity/Specificity:	Recombinant full-length human TUBB1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Relevant Links:	• NCBI - NM_178014

Application Details

Application Note:	TUBB1 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. TUBB1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~76kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°C. 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.
Expiration:	Expiration date is one (1) year from date of receipt.

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