Datasheet for ABIN6700746

TUBB Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	TUBB
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TUBB protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	Tubulin beta (TUBB1) recombinant protein-GST fusion protein
Purification:	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.
Purity:	>85%

Target Details

Target:	TUBB
Alternative Name:	TUBB (TUBB Products)
Background:	Synonyms: M40, TUBB, TUBB5, MGC16435, MGC117247, OK/SW-cl.56, Tubulin beta chain, Tubulin beta-5 chain Background: TUBB1 or tubulin-beta 1 protein is a major constituent of microtubules. TUBB1

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Target Details

	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.
NCBI Accession:	NM_178014
Pathways:	Microtubule Dynamics, M Phase

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: TUBB1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~76 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	TUBB1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	12 months

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