

Datasheet for ABIN2734576

TUBB3 Protein (Myc-DYKDDDDK Tag)**1** Image**6** Publications[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	TUBB3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TUBB3 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

Product Details

Characteristics:	<ul style="list-style-type: none">• Recombinant human TUBB3 / TUBB4 protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	TUBB3
Alternative Name:	Tubb3,tubb4 (TUBB3 Products)
Background:	This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple

Target Details

transcript variants. A pseudogene of this gene is found on chromosome 6.

Molecular Weight: 50.3 kDa

NCBI Accession: [NP_006077](#)

Pathways: [Microtubule Dynamics, M Phase](#)

Application Details

Application Notes: Recombinant human proteins can be used for:
Native antigens for optimized antibody production
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

Handling

Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in: Huang, Shao, Qu, Yang, Dwyer, Liu: "Coordinated interaction of Down syndrome cell adhesion molecule and deleted in colorectal cancer with dynamic TUBB3 mediates Netrin-1-induced axon branching." in: **Neuroscience**, Vol. 293, pp. 109-22, (2015) ([PubMed](#)).

Soufi, Garcia, Jaroszewicz, Osman, Pellegrini, Zaret: "Pioneer transcription factors target partial DNA motifs on nucleosomes to initiate reprogramming." in: **Cell**, Vol. 161, Issue 3, pp. 555-68, (2015) ([PubMed](#)).

Wang, Reece, Yang: "Oxidative stress is responsible for maternal diabetes-impaired transforming growth factor beta signaling in the developing mouse heart." in: **American journal of obstetrics and gynecology**, Vol. 212, Issue 5, pp. 650.e1-11, (2015) ([PubMed](#)).

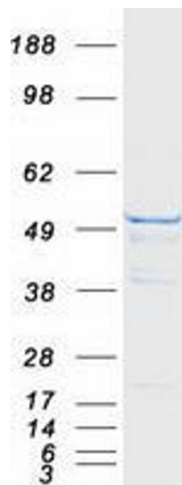
Publications

Gallardo, Martínez-Hernández, Titulaer, Huijbers, Martínez, Ramos, Querol, Díaz-Manera, Rojas-García, Hayworth, Verschuuren, Balice-Gordon, Dalmau, Illa: "Cortactin autoantibodies in myasthenia gravis." in: **Autoimmunity reviews**, Vol. 13, Issue 10, pp. 1003-7, (2014) ([PubMed](#)).

Qu, Dwyer, Shao, Yang, Huang, Liu: "Direct binding of TUBB3 with DCC couples netrin-1 signaling to intracellular microtubule dynamics in axon outgrowth and guidance." in: **Journal of cell science**, Vol. 126, Issue Pt 14, pp. 3070-81, (2013) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Validation with Western Blot