

Datasheet for ABIN969447

**anti-TUBB3 antibody**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	TUBB3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Purified recombinant fragment of human TUBB3 expressed in E. coli.
Clone:	2-00E-09
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	TUBB3
Alternative Name:	TUBB3 ( <a href="#">TUBB3 Products</a> )
Background:	Description: Tubulin, beta 3, also known as TUBB3. Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non exchangeable site on the alpha-chain. Tubulin is a highly conserved protein with a molecular weight of ~50 kD. Microtubules play key roles in chromosome segregation in mitosis, intracellular transport, ciliary and flagellar bending, and structural support of the

## Target Details

cytoskeleton. The two main tubulin isoforms,  $\alpha$ - and  $\beta$ -tubulin, are usually products of separate genes. The  $\beta$ -tubulin family includes six expressed genes that produce the polypeptide isoforms known as Classes I through VI, each of which have a distinct pattern of expression. Class III  $\beta$ -tubulin is found in neurons and mammalian testis cells and is widely used as a neuronal marker in developmental neurobiology, neoplasia, and stem cell research. Class III  $\beta$ -tubulin expression in neuronal and neuroblastic tumors is differentiation dependent, and its expression in certain non-neuronal neoplasms has been associated with poor prognosis and/or resistance to chemotherapy.

Aliases: tubulin, beta 3, MC1R, TUBB4

Molecular Weight: 50 kDa

Gene ID: 10381

HGNC: 10381

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

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

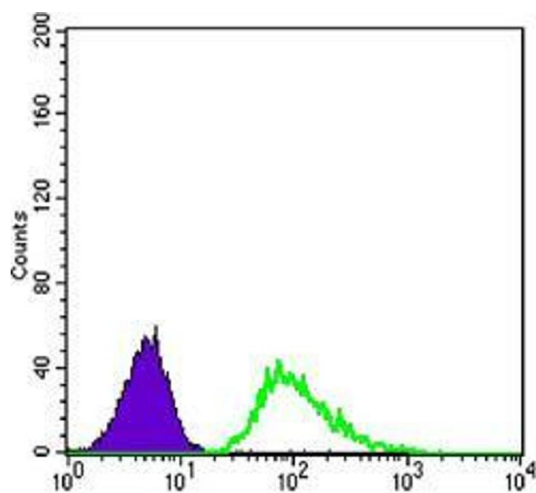
## Publications

Product cited in: Jan, Adolfsson, Allaman, Buccarello, Magistretti, Pfeifer, Muhs, Lashuel: "Abeta42 neurotoxicity is mediated by ongoing nucleated polymerization process rather than by discrete Abeta42 species." in: **The Journal of biological chemistry**, Vol. 286, Issue 10, pp. 8585-96, (2011) (

[PubMed](#)).

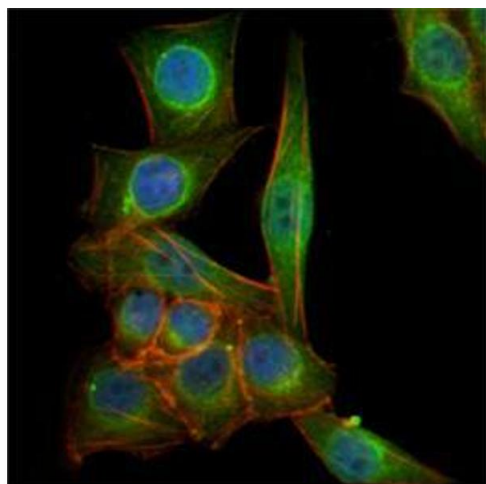
Deshmukh, Salehzadeh, Metayer-Coustard, Fahlman, Nair, Al-Khalili: "Post-transcriptional gene silencing of ribosomal protein S6 kinase 1 restores insulin action in leucine-treated skeletal muscle." in: **Cellular and molecular life sciences : CMLS**, Vol. 66, Issue 8, pp. 1457-66, (2009) ([PubMed](#)).

## Images



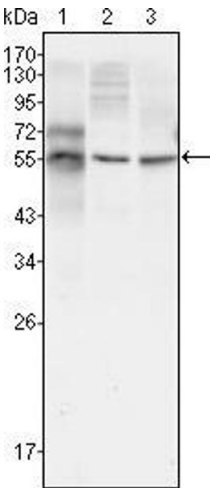
### Flow Cytometry

**Image 1.** Flow cytometric analysis of A549 cells using TUBB3 mouse mAb (green) and negative control (purple).



### Immunofluorescence

**Image 2.** Immunofluorescence analysis of PANC-1 cells using TUBB3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Western Blotting

**Image 3.** Western blot analysis using TUBB3 mouse mAb against HepG2 (1), A549 (2) and Hela (3) cell lysate.