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# Datasheet for ABIN964563 anti-alpha Tubulin antibody (C-Term)

13 Images

6 Publications



## Overview

Quantity:	100 µg
Target:	alpha Tubulin (TUBA1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Chicken, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This alpha Tubulin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)
Product Details	
Immunogen:	Anti-Tubulin Loading Control Antibody was produced by repeated immunizations with a
	synthetic peptide corresponding to residues near the C terminal end of of human alpha tubulin
	protein.
Clone:	17H11-F10
lsotype:	IgG1 kappa
Isotype: Specificity:	lgG1 kappa Anti-Tubulin Loading Control Antibody was purified Protein A chromatography. This Loading
	Anti-Tubulin Loading Control Antibody was purified Protein A chromatography. This Loading
	Anti-Tubulin Loading Control Antibody was purified Protein A chromatography. This Loading Control antibody is directed against alpha tubulin. A BLAST analysis was used to suggest
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	Anti-Tubulin Loading Control Antibody was purified Protein A chromatography. This Loading Control antibody is directed against alpha tubulin. A BLAST analysis was used to suggest antibody reactivity with alpha tubulin from a wide range of organisms, including avian, mammalian aquatic, parasitic and alga sources based on 100% homology for the immunogen

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# Product DetailsCross-Reactivity:Mouse (Murine), Rat (Rattus), Chicken, Sheep (Ovine)Characteristics:Microtubules are involved in a wide variety of cellular activities ranging from mitosis and<br/>transport events to cell movement and the maintenance of cell shape. Tubulin itself is a<br/>globular protein consisting of two polypeptides (alpha and beta tubulin). Alpha and beta tubulin<br/>dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter.<br/>Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha tubulin. Assembled<br/>microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase.<br/>Detyrosinated alpha tubulin is referred to as Glu-tubulin. Another post-translational modification<br/>of detyrosinated alpha tubulin is C-terminal polyglutamylation, which is characteristic of<br/>microtubules in neuronal cells and the mitotic spindle. This antibody makes an excellent

Sterility:

Sterile filtered

loading control.

# Target Details

Target:	alpha Tubulin (TUBA1)
Alternative Name:	Alpha-Tubulin (TUBA1 Products)
Background:	<ul> <li>Microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape. Tubulin itself is a globular protein consisting of two polypeptides (alpha and beta tubulin). Alpha and beta tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter.</li> <li>Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase.</li> <li>Detyrosinated alpha tubulin is referred to as Glu-tubulin. Another post-translational modification of detyrosinated alpha tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle. This antibody makes an excellent loading control.</li> <li>Synonyms: Tubulin alpha-1B chain, Tubulin alpha-ubiquitous chain, Alpha-tubulin ubiquitous</li> </ul>
	Tubulin K-alpha-1, TUBA1B, tubulin loading control
Gene ID:	17986283
UniProt:	P68363
Pathways:	Microtubule Dynamics

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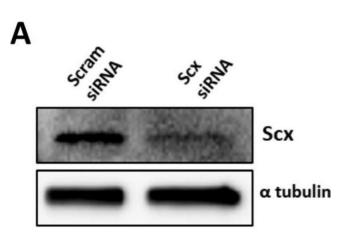
# Application Details Application Notes: Anti-Tubulin Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence microscopy and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~50 kDa in size corresponding to alpha tubulin by western blotting in most cell lysates or extracts. Comment: Gene Name: TUBA1B Restrictions: For Research Use only

# Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months
Publications	
Product cited in:	Tretter, Ross, Dordai, Desiderio: "Mimicry of pre-B cell receptor signaling by activation of the tyrosine kinase Blk." in: <b>The Journal of experimental medicine</b> , Vol. 198, Issue 12, pp. 1863-73, (2003) (PubMed).

There are more publications referencing this product on: Product page

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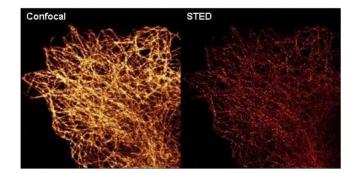


## Western Blotting

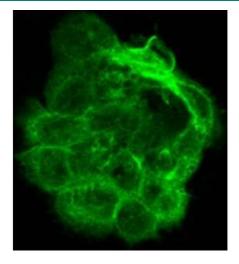
Image 1. Scx is required for the expression of Fmod and Adamtsl2. (A) C3H10T1/2 cells were transduced with a scrambled siRNA control (Scram) or Scx specific siRNA for 24 h. Representative immunoblot showing Scx protein. atubulin is used as a loading control. (B) Quantification of Scx immunoblots comparing Scram transduced and Scx siRNA transduced cells. Protein levels were normalized to a tubulin and quantified using ImageJ and GraphPad Prism, n=3, (\*) indicates significance, p<0.05. (C) Scx mRNA levels were determined by qPCR in Scram transduced and Scx siRNA transduced cells. Data was normalized to Hprt mRNA and analyzed using REST software, n=6, (\*) indicates significance, p<0.05. (D) RNA was collected from cells that were transduced with Scram siRNA or Scx siRNA for 24 h and subsequently either left untreated (-) or treated with TGF<sub>β1</sub>(+) for 8 h. Fmod and Adamtsl2 mRNA levels were determined by qPCR. mRNA levels were normalized to Hprt. qPCR data was analyzed by REST software, n=6, (\*) indicates significance, p<0.05. Detailed results from qPCR REST analysis are shown in Tables S11, S12. Immunoblots were cropped for clarity. Examples of uncropped blots are found in Supplementary Figures. - figure provided by CiteAb. Source: PMID33288795

### Immunofluorescence

Image 2.



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## Immunofluorescence

**Image 3.** Immunofluorescence of Mouse monoclonal anti-Alpha Tubulin antibody. Cell Type: A431 cells Fixation: 4% paraformaldehyde 10 min Permeablization: 0.5% Triton X 30 min Primary Ab: lot 28977 1:250 72 hours 4°C Secondary Ab: 610-141-121 lot 21286 1:1000 overnight 4°C

Please check the product details page for more images. Overall 13 images are available for ABIN964563.