

## Product datasheet

# Anti-TUBA1C antibody ab155330

[3 Images](#)

### Overview

<b>Product name</b>	Anti-TUBA1C antibody
<b>Description</b>	Rabbit polyclonal to TUBA1C
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Cow, Xenopus tropicalis 
<b>Immunogen</b>	Recombinant fragment within Human TUBA1C aa 19-235. The exact sequence is proprietary. Database link: <a href="#">Q9BQE3</a>
<b>Positive control</b>	WB: NT2D1, IMR32, U87 MG, MCF7 and NIH 3T3 cell lysates. ICC/IF: HeLa cells.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 78% PBS, 20% Glycerol, 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab155330 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 50 kDa.
ICC/IF		1/100 - 1/1000.

## Target

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### Function

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.

### Sequence similarities

Belongs to the tubulin family.

### Post-translational modifications

Undergoes a tyrosination/detyrosination cycle, the cyclic removal and re-addition of a C-terminal tyrosine residue by the enzymes tubulin tyrosine carboxypeptidase (TTCP) and tubulin tyrosine ligase (TTL), respectively.

Some glutamate residues at the C-terminus are polyglutamylated. This modification occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Also monoglycylated but not polyglycylated due to the absence of functional TTL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella) whereas glutamylation is prevalent in neuronal cells, centrioles, axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylation, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules.

Acetylation of alpha-tubulins at Lys-40 stabilizes microtubules and affects affinity and processivity of microtubule motors. This modification has a role in multiple cellular functions, ranging from cell motility, cell cycle progression or cell differentiation to intracellular trafficking and signaling.

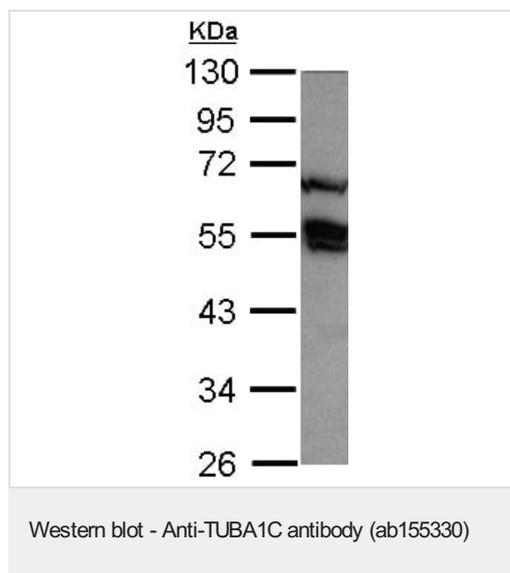
### Cellular localization

Cytoplasm > cytoskeleton.

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## Images

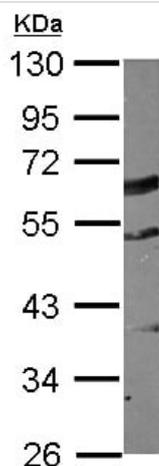
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Anti-TUBA1C antibody (ab155330) at 1/1000 dilution + IMR32 whole cell lysate at 30 µg

**Predicted band size:** 50 kDa

10% SDS PAGE.

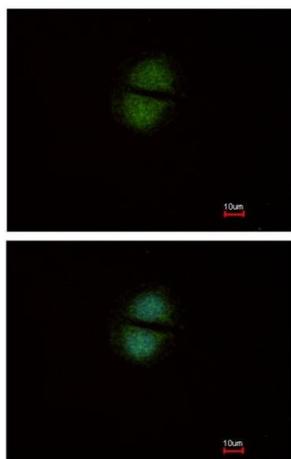


Western blot - Anti-TUBA1C antibody (ab155330)

Anti-TUBA1C antibody (ab155330) at 1/1000 dilution + NIH-3T3 cell lysate at 30 µg

**Predicted band size:** 50 kDa

10% SDS PAGE.



Immunocytochemistry/ Immunofluorescence - Anti-TUBA1C antibody (ab155330)

Immunofluorescence analysis of methanol-fixed MCF7 cells labeling TUBA1C using ab155330 at 1/200 dilution. Lower image shows cells co-stained with Hoechst 33342.

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