


Anti-beta II Tubulin antibody ab151318

[22 References](#) [4 Images](#)

Overview

Product name	Anti-beta II Tubulin antibody
Description	Rabbit polyclonal to beta II Tubulin
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken, Cow, Xenopus laevis, Monkey, Zebrafish, Xenopus tropicalis 
Immunogen	A recombinant protein fragment corresponding to a region within amino acids 243 and 445 of Human beta II Tubulin (UniProt ID: P68371).
Positive control	A431; NIH 3T3; Jurkat; 293T and Raji cell lysates; A431 cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

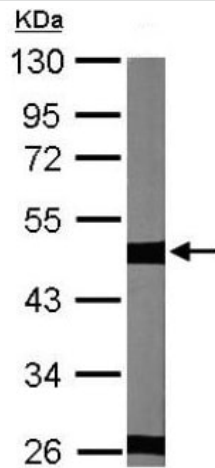
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab151318 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
WB		1/5000 - 1/20000. Predicted molecular weight: 50 kDa.
ICC/IF		1/100 - 1/1000.

Target

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.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the tubulin family.
Domain	The highly acidic C-terminal region may bind cations such as calcium.
Post-translational modifications	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.
Cellular localization	Cytoplasm > cytoskeleton.

Images



Western blot - Anti-beta II Tubulin antibody
(ab151318)

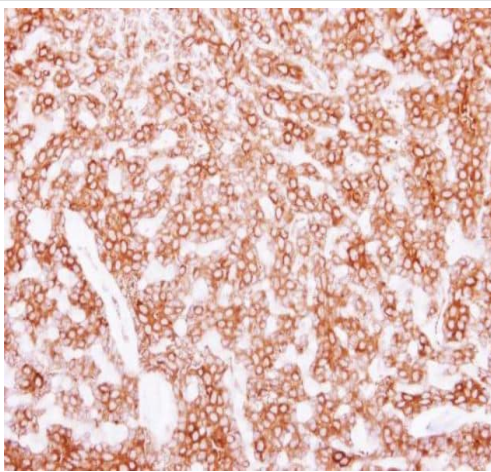
Anti-beta II Tubulin antibody (ab151318) at 1/10000 dilution +
NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 30
µg

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 50 kDa

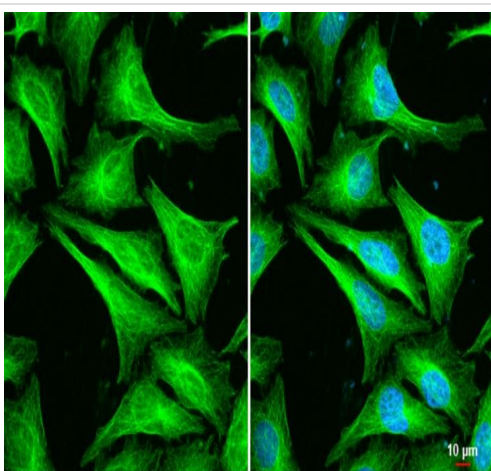
10% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-beta II Tubulin antibody
(ab151318)

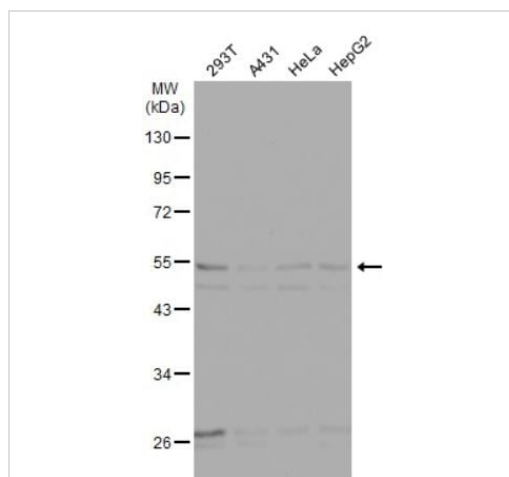
Paraffin-embedded human breast cancer tissue stained beta II
tubulin using ab151318 at 1/250 dilution.

Antigen Retrieval: EDTA based buffer, pH 8.0, 15min.



Immunocytochemistry/ Immunofluorescence - Anti-
beta II Tubulin antibody (ab151318)

Immunofluorescence analysis of 4% paraformaldehyde fixed (at RT
for 15 min) HeLa (human epithelial cell line from cervix
adenocarcinoma) cells labelling beta II tubulin at
cytoskeleton (green) using ab151318 at 1/500 dilution. Blue:
Fluoroshield with DAPI. Scale bar= 10 µm.



Western blot - Anti-beta II Tubulin antibody
(ab151318)

All lanes : Anti-beta II Tubulin antibody (ab151318) at 1/10000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell lysate

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 50 kDa

10% SDS-PAGE

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