abcam

Product datasheet

Anti-gamma Tubulin antibody [4D11] - C-terminal ab173831

1 References 4 Images

Overview

Product name	Anti-gamma Tubulin antibody [4D11] - C-terminal
Description	Mouse monoclonal [4D11] to gamma Tubulin - C-terminal
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Mouse, Human, African green monkey
Immunogen	Recombinant fragment within Human gamma Tubulin aa 437-451 (C terminal). The exact sequence is proprietary. Sequence: AATRPDYISWGTQEQ Database link: **P23258** Run BLAST with Run BLAST with
Positive control	Human breast carcinoma and colon tissues; HeLa and U2OS cells; HeLa, HepG2, U2OS and K562 cell lysates; mouse 3T3L1 and spleen lysates; monkey COS7 cell lysate.
General notes	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. 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

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	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
Purity	Protein G purified

Clonality	Monoclonal
Clone number	4D11
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab173831 in the following tested applications.

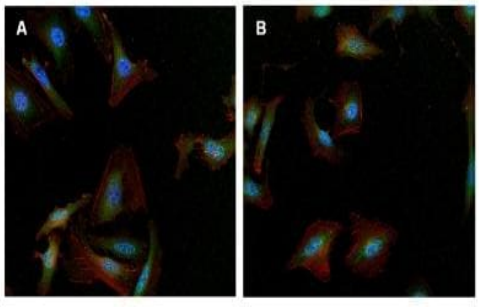
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 51 kDa.
ICC/IF		1/50.
IHC-P		1/20 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

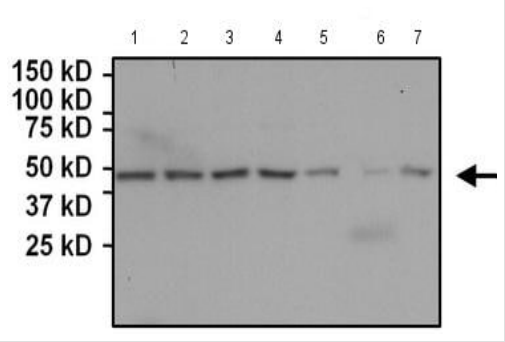
Function	Tubulin is the major constituent of microtubules. Gamma tubulin is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. Pericentriolar matrix component that regulates alpha/beta tubulin minus-end nucleation, centrosome duplication and spindle formation.
Sequence similarities	Belongs to the tubulin family.
Post-translational modifications	Phosphorylation at Ser-131 by BRSK1 regulates centrosome duplication, possibly by mediating relocation of gamma-tubulin and its associated proteins from the cytoplasm to the centrosome.
Cellular localization	Cytoplasm > cytoskeleton > centrosome.

Images



Immunocytochemistry/ Immunofluorescence - Anti-gamma Tubulin antibody [4D11] - C-terminal (ab173831)

Immunofluorescence analysis of formalin-fixed, permeabilized A) HeLa cells and B) U2OS, labeling gamma Tubulin (green) using ab173831 at a 1/50 dilution. Cells were washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. F-Actin (red) was stained with DyLight 547 Phalloidin and nuclei (blue) were stained with Hoechst 33342 dye.



Western blot - Anti-gamma Tubulin antibody [4D11] - C-terminal (ab173831)

All lanes : Anti-gamma Tubulin antibody [4D11] - C-terminal (ab173831) at 1/1000 dilution

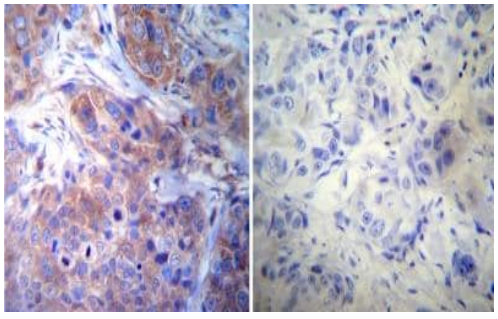
Lane 1 : HeLa cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : U2OS cell lysate
Lane 4 : K562 cell lysate
Lane 5 : mouse 3T3L1 cell lysate
Lane 6 : mouse spleen lysate
Lane 7 : monkey COS7 cell lysate

Lysates/proteins at 50 µg per lane.

Secondary
All lanes : goat anti-mouse-HRP at 1/20000 dilution

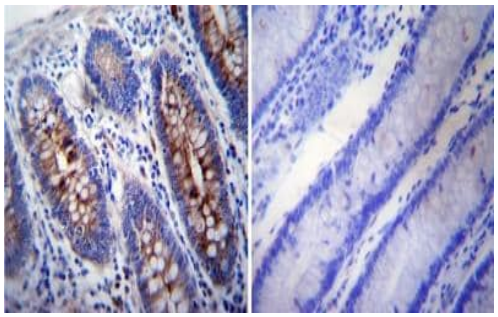
Developed using the ECL technique.

Predicted band size: 51 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Tubulin antibody [4D11] - C-terminal (ab173831)

Immunohistochemical analysis of Human breast carcinoma tissue, labeling gamma Tubulin with ab173831 at a 1/20 dilution (left panel) or without primary antibody (right panel). To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Tubulin antibody [4D11] - C-terminal (ab173831)

Immunohistochemical analysis of Human colon tissue, labeling gamma Tubulin with ab173831 at a 1/200 dilution (left panel) or without primary antibody (right panel). To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors