Product datasheet

Anti-gamma Tubulin antibody ab11317

Overview

Product name  Anti-gamma Tubulin antibody
Description  Rabbit polyclonal to gamma Tubulin
Host species  Rabbit
Tested applications  Suitable for: ICC/IF, WB
Species reactivity  Reacts with: Chicken, Human
Predicted to work with: Drosophila melanogaster, Schizosaccharomyces pombe, Sea urchin
Immunogen  Synthetic peptide:
EEFATEGTDRKDVFFY-C
conjugated to KLH, corresponding to N terminal amino acids 38-53 of Human gamma Tubulin

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer  pH: 7.40
Preservative: 0.097% Sodium azide
 Constituents: 0.0268% PBS, 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity  IgG fraction
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab11317 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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 analysis of NIH3T3 cells labelling gamma Tubulin (green) with ab11317 at a dilution of 1/1500. A Atto448 dye conjugated goat anti-rabbit IgG was used as the secondary antibody. Actin was stained with phalloidin rhodamine conjugate (red). Nuclear staining with DAPI (blue).
**Western blot** - Anti-gamma Tubulin antibody (ab11317)

All lanes: Anti-gamma Tubulin antibody (ab11317) at 1/1000 dilution

Lane 1: A431 cell lysate
Lane 2: HeLa cell lysate
Lane 3: Jurkat cell lysate
Lane 4: C2C12 cell lysate
Lane 5: Rat2 cell lysate
Lane 6: U87 cell lysate
Lane 7: NIH3T3 cell lysate
Lane 8: CHO cell lysate

**Secondary**

All lanes: Peroxidase-conjugated goat anti-rabbit IgG

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling gamma Tubulin (green) with ab11317 at a dilution of 1/1500. A Atto448 dye conjugated goat anti-rabbit IgG was used as the secondary antibody. Actin was stained with phalloidin rhodamine conjugate (red). Nuclear staining with DAPI (blue).

Immunocytochemistry/Immunofluorescence analysis of Rat2 cells labelling gamma Tubulin (green) with ab11317 at a dilution of 1/1500. A Atto448 dye conjugated goat anti-rabbit IgG was used as the secondary antibody. Actin was stained with phalloidin rhodamine conjugate (red). Nuclear staining with DAPI (blue).
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