

Product datasheet

Anti-gamma Tubulin antibody [EPR13872] - Centrosome Marker (Biotin) ab197629

Recombinant RabMAb

[1 References](#) [1 Image](#)

Overview

Product name	Anti-gamma Tubulin antibody [EPR13872] - Centrosome Marker (Biotin)
Description	Rabbit monoclonal [EPR13872] to gamma Tubulin - Centrosome Marker (Biotin)
Host species	Rabbit
Conjugation	Biotin
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Dog, Drosophila melanogaster, a wide range of other species 
Immunogen	Synthetic peptide within Human gamma Tubulin aa 1-100. The exact sequence is proprietary. Database link: Q9NRH3
Positive control	IHC-P: Normal human colon tissue.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

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 long term. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13872
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab197629** in the following tested applications.

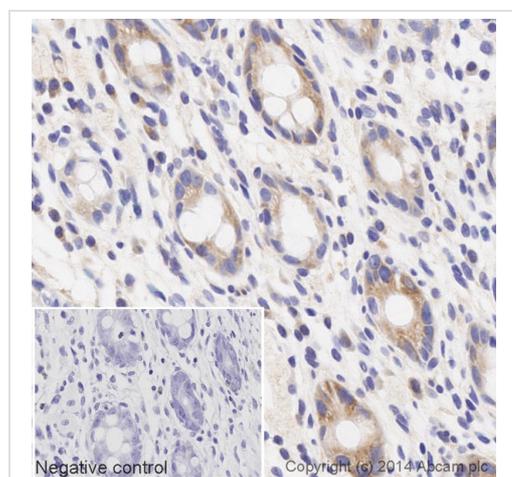
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500. 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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Tubulin antibody [EPR13872] - Centrosome Marker (Biotin) (ab197629)

IHC image of gamma Tubulin staining in a section of formalin-fixed paraffin-embedded normal human colon tissue*, performed on a Leica Bond system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab197629 at 1/500 dilution for 15 mins at room temperature and detected using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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