

Product datasheet

Anti-Bub3 antibody [EPR5319(2)] ab133699

Recombinant RabMAb

8 References 6 Images

Overview

Product name	Anti-Bub3 antibody [EPR5319(2)]
Description	Rabbit monoclonal [EPR5319(2)] to Bub3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Lysates of Jurkat, HeLa, 293T IHC-P: Human breast tissue, Human thyroid carcinoma tissue ICC/IF: 293T cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR5319(2)
Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab133699 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		1/10000 - 1/50000. Detects a band of approximately 40 kDa (predicted molecular weight: 37 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/2000.

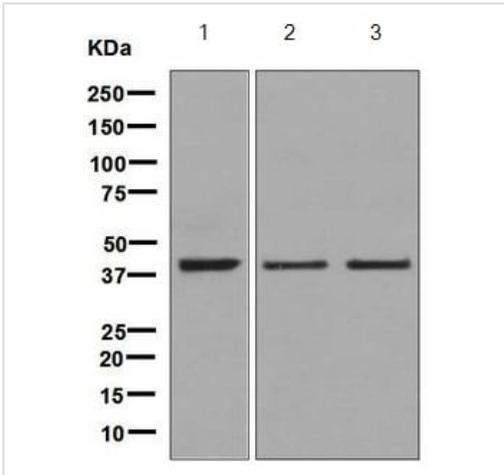
Target

Function Has a dual function in spindle-assembly checkpoint signaling and in promoting the establishment of correct kinetochore-microtubule (K-MT) attachments. Promotes the formation of stable end-on bipolar attachments. Necessary for kinetochore localization of BUB1. Regulates chromosome segregation during oocyte meiosis. The BUB1/BUB3 complex plays a role in the inhibition of anaphase-promoting complex or cyclosome (APC/C) when spindle-assembly checkpoint is activated and inhibits the ubiquitin ligase activity of APC/C by phosphorylating its activator CDC20. This complex can also phosphorylate MAD1L1.

Sequence similarities Belongs to the WD repeat BUB3 family.
Contains 5 WD repeats.

Cellular localization Nucleus. Chromosome > centromere > kinetochore. Starts to localize at kinetochores in prometaphase I (Pro-MI) stage and maintains the localization until the metaphase I-anaphase I (MI-AI) transition.

Images



Western blot - Anti-Bub3 antibody [EPR5319(2)] (ab133699)

All lanes : Anti-Bub3 antibody [EPR5319(2)] (ab133699) at 1/10000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : 293T cell lysate

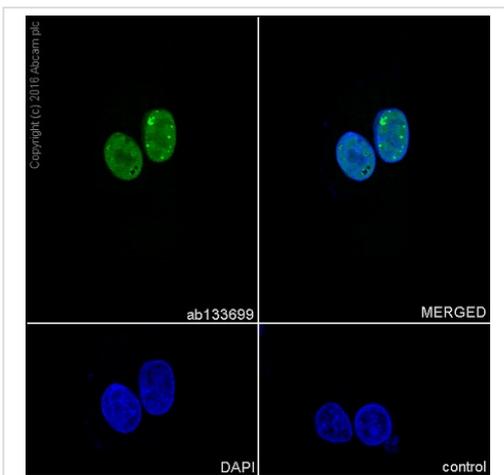
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti Rabbit at 1/2000 dilution

Predicted band size: 37 kDa

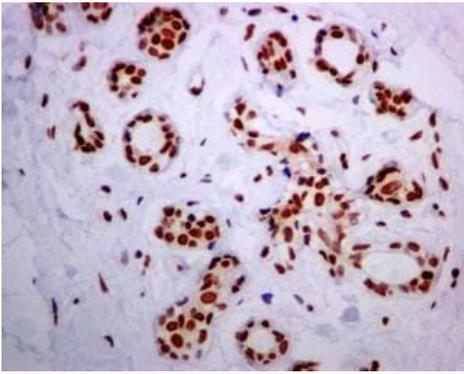
Observed band size: 40 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Bub3 antibody [EPR5319(2)] (ab133699)

Immunocytochemistry/Immunofluorescence analysis of HepG2 (human hepatocellular carcinoma) labelling Bub3 with purified ab133699 at 1/2000. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (Ab150077). Nuclei counterstained with DAPI (blue).

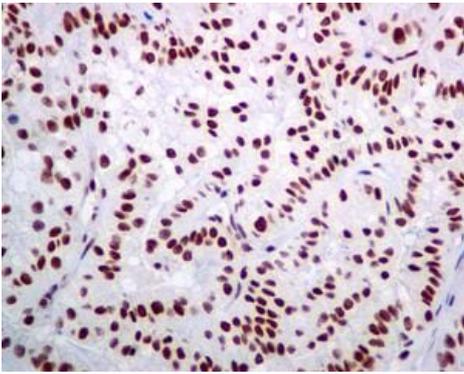
Control: PBS only



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bub3 antibody [EPR5319(2)] (ab133699)

Immunohistochemical analysis of paraffin-embedded human breast tissue labelling Bub3 using ab133699 at 1/100 dilution

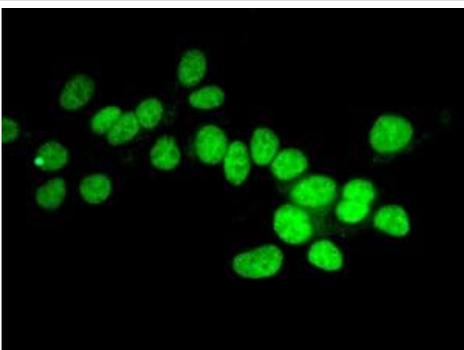
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bub3 antibody [EPR5319(2)] (ab133699)

Immunohistochemical analysis of paraffin-embedded human thyroid carcinoma tissue labelling Bub3 using ab133699 at 1/100 dilution

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Bub3 antibody [EPR5319(2)] (ab133699)

Immunofluorescent staining Bub3 in 293T cells using ab133699 at 1/250 dilution

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Bub3 antibody [EPR5319(2)] (ab133699)

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