abcam

Product datasheet

Anti-Cdc20 antibody [AR12] ab190711

2 Images

Overview

Product name	Anti-Cdc20 antibody [AR12]
Description	Mouse monoclonal [AR12] to Cdc20
Host species	Mouse
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein (His-tag) corresponding to Human Cdc20 aa 1 to the C-terminus. Urea-denatured His6 Cdc20 Human recombinant protein Database link: **Q12834**

                                      Run BLAST with   **Run BLAST with**

Positive control	IHC-P: Human gastric carcinoma tissue, tonsil tissue.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, PBS
Purification notes	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G
Clonality	Monoclonal
Clone number	AR12
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab190711 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		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function   Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1. In metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is active in degrading substrates.

Pathway   Protein modification; protein ubiquitination.

Sequence similarities   Belongs to the WD repeat CDC20/Fizzy family.
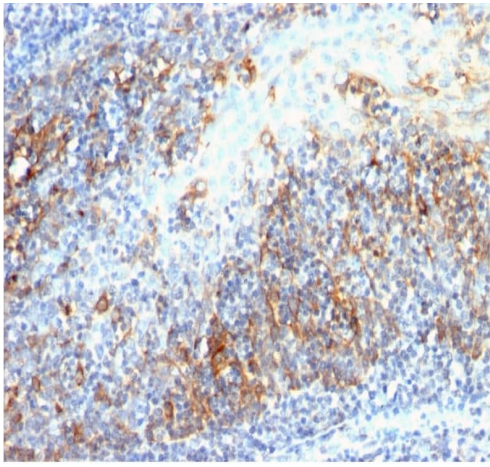Contains 7 WD repeats.

Developmental stage   Synthesis is initiated at G1/S, protein level peaks in M phase and protein is abruptly degraded at M/G1 transition.
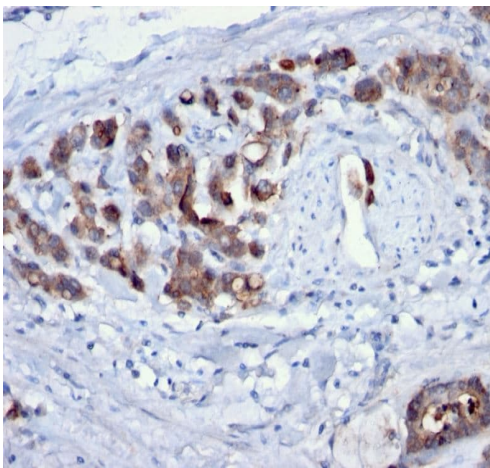
Post-translational modifications   Phosphorylated during mitosis, probably by maturation promoting factor (MPF). Phosphorylated by BUB1 at Ser-41; Ser-72; Ser-92; Ser-153; Thr-157 and Ser-161.
Ubiquitinated and degraded by the proteasome during spindle assembly checkpoint.
Deubiquitinated by USP44, leading to stabilize the MAD2L1-CDC20-APC/C ternary complex, thereby preventing premature activation of the APC/C.

Images

Paraffin embedded human tonsil tissue stained for CDC20 using ab190711 at 2µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdc20 antibody [AR12] (ab190711)

Paraffin embedded human Gastric Carcinoma tissue stained for CDC20 using ab190711 at 2µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdc20 antibody [AR12] (ab190711)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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