# abcam

## Product datasheet

# Anti-Cdc20 antibody ab155921

**1 References**    **2 Images**

## Overview

| | |
|---|---|
| **Product name** | Anti-Cdc20 antibody |
| **Description** | Rabbit polyclonal to Cdc20 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, IHC-P |
| **Species reactivity** | **Reacts with:** Human |
| | **Predicted to work with:** Mouse, Cow |
| **Immunogen** | Recombinant fragment, corresponding to a region within amino acids 14-270 of Human Cdc20 (Uniprot ID: Q12834). |
| **Positive control** | Recombinant Human Cdc20 protein (**ab131769**) can be used as a positive control in WB. HeLa whole cell lysate; Human breast carcinoma 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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.00<br>Preservative: 0.01% Thimerosal (merthiolate)<br>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine) |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee**    Our **Abpromise guarantee** covers the use of ab155921 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** | | 1/500 - 1/3000. Predicted molecular weight: 55 kDa. |
| **IHC-P** | | 1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval also possible using Tris-EDTA buffer (pH8.0). |

## Target

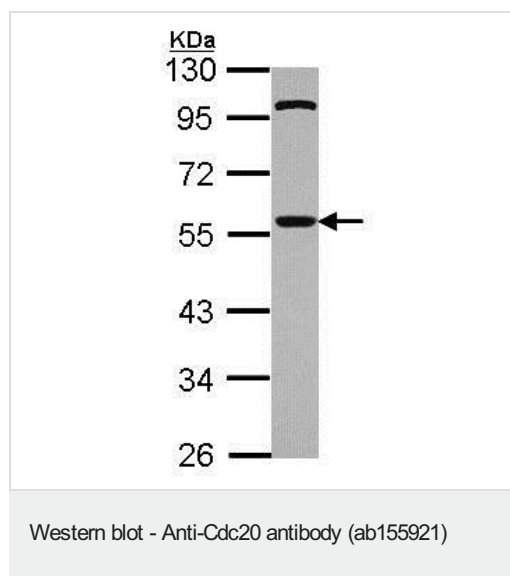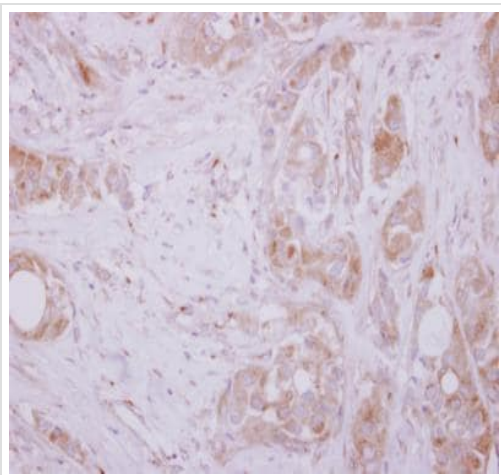| | |
|---|---|
| **Function** | Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1. In metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C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



Anti-Cdc20 antibody (ab155921) at 1/1000 dilution + HeLa whole cell lysate at 30 µg

**Predicted band size:** 55 kDa

10% SDS PAGE

Western blot - Anti-Cdc20 antibody (ab155921)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue, labeling Cdc20 with ab155921 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdc20 antibody (ab155921)

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

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