abcam

Product datasheet

Anti-Cdc20 antibody ab183479

15 References   3 Images

Overview

Product name	Anti-Cdc20 antibody
Description	Rabbit polyclonal to Cdc20
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human Cdc20 aa 1-300. Database link: **Q12834**

Run BLAST with   **Run BLAST with**

Positive control	NIH 3T3 and INS1 cell lysates; U2OS cells transfected with Cdc20.
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	Preservative: 0.05% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

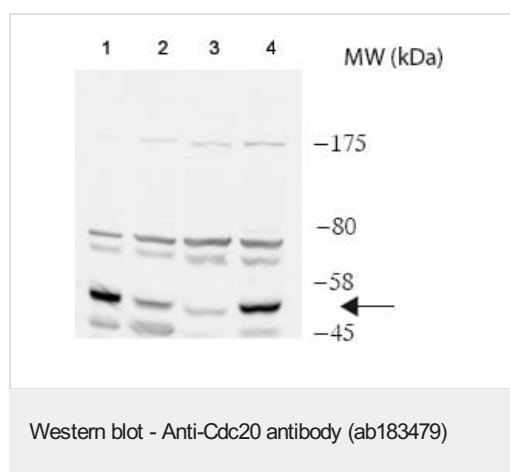|	
The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab183479 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 55 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		1/1000.

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

Western blot - Anti-Cdc20 antibody (ab183479)

All lanes : Anti-Cdc20 antibody (ab183479) at 1/2000 dilution

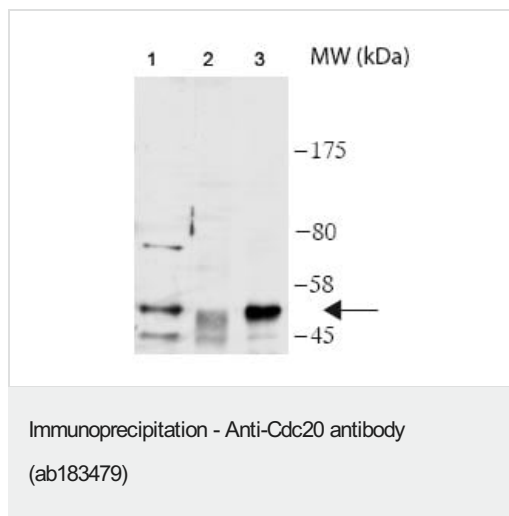**Lane 1 :** U2OS cells transfected with control si RNA

Lane 2 : U2OS cells transfected with Cdc20 si RNA

Lane 3 : Rat INS1 cell lysate

Lane 4 : Mouse NIH 3T3 cell lysate

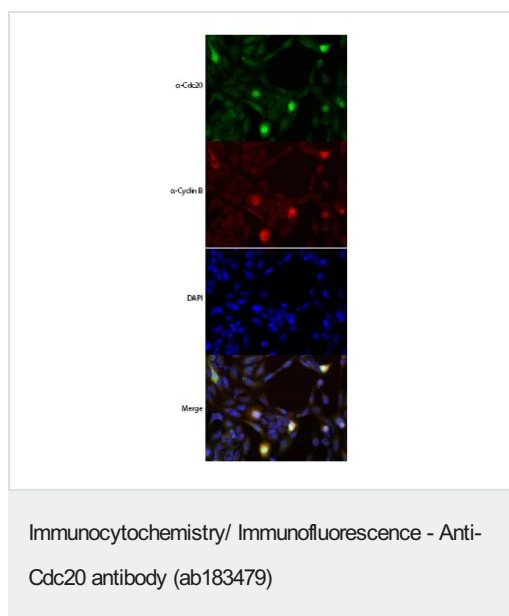Lysates/proteins at 40 µg per lane.

Predicted band size: 55 kDa

Western blot analysis of Immunoprecipitation using U2OS cells

Lane 1: Input.

Lane 2: control serum.

Lane 3: ab183479.

Immunoprecipitation - Anti-Cdc20 antibody (ab183479)

Immunofluorescent analysis of U2OS cells showing labeling of Cdc20 with ab183479 at 1/1000 dilution. Anti-Cyclin B labeling is seen in red and DAPI counterstain in blue. Lower image is merged.

Immunocytochemistry/ Immunofluorescence - Anti-Cdc20 antibody (ab183479)

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

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