abcam

Product datasheet

Anti-Cdc27 antibody [AF3.1] ab10538

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Overview

Product name	Anti-Cdc27 antibody [AF3.1]
Description	Mouse monoclonal [AF3.1] to Cdc27
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide conjugated to KLH, corresponding to amino acids 814-823 of Human Cdc27.
Positive control	HeLa cell nuclear extract.
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	AF3.1
Isotype	IgG2b

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab10538 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)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 80 kDa (predicted molecular weight: 92 kDa).
IHC-P		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10^6 cells. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

Function	Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the APC3/CDC27 family. Contains 9 TPR repeats.
Post-translational modifications	Phosphorylated. Phosphorylation on Ser-426 and Thr-446 occurs specifically during mitosis.
Cellular localization	Nucleus.

Images

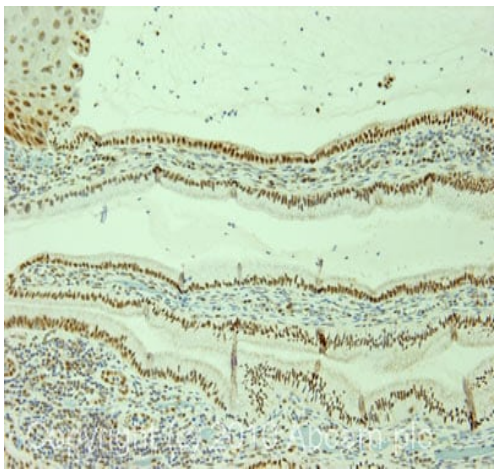
Western blot - Anti-Cdc27 antibody [AF3.1] (ab10538)

All lanes : Anti-Cdc27 antibody [AF3.1] (ab10538)

Lane 1 : HeLa cell lysate
Lane 2 : 293 cell lysate
Lane 3 : Mouse myeloid cell lysate

Predicted band size: 92 kDa
Observed band size: 80 kDa

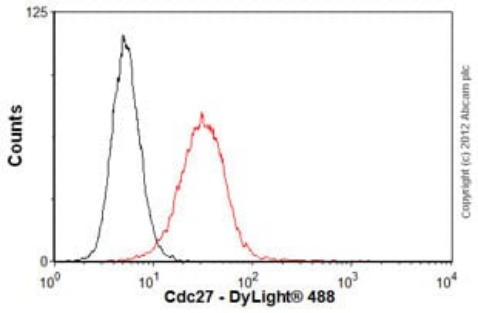
We have no more information on how this image was prepared by the academic who produced the antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdc27 antibody [AF3.1] (ab10538)

IHC image of ab10538 staining in human cervical carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. 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 ab10538, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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.



Flow Cytometry - Anti-Cdc27 antibody [AF3.1] (ab10538)

Overlay histogram showing K562 cells stained with ab10538 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab10538, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in K562 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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