

Product datasheet

Anti-Apc7 antibody ab4171

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Overview

Product name	Anti-Apc7 antibody
Description	Rabbit polyclonal to Apc7
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive control in the following lysates: HeLa Nuclear Extract Heart (Mouse) Tissue Spinal Cord (Mouse) Tissue
General notes	<p>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.</p> <p>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</p>

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab4171 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. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
ICC/IF		Use a concentration of 10 µg/ml.

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.

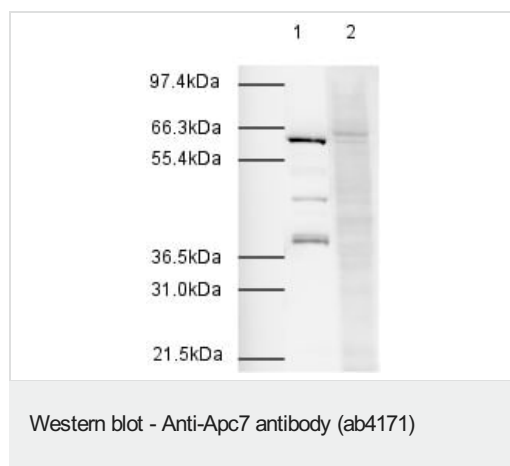
Pathway

Protein modification; protein ubiquitination.

Sequence similarities

Belongs to the APC7 family.
Contains 7 TPR repeats.

Images



All lanes : Anti-Apc7 antibody (ab4171)

Lane 1 : HeLa Nuclear Extract

Lane 2 : HeLa Nuclear Extract with Apc7 peptide (**ab13734**) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary

Lane 1 : Goat Anti-Rabbit IgG H&L (HRP) (**ab6721**) at 1/2000 dilution

Lane 2 : Goat polyclonal to Rabbit IgG - H&L (HRP) (**ab6721**) at 1/2000 dilution

Predicted band size: 63 kDa

Observed band size: 63 kDa

Additional bands at: 39 kDa, 45 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

Western blot using ab4171 against HeLa Nuclear Extract.

The expected band size for Apc7 is 63 kd, which corresponds to the band seen in this western. The band is blocked by the immunising peptide.

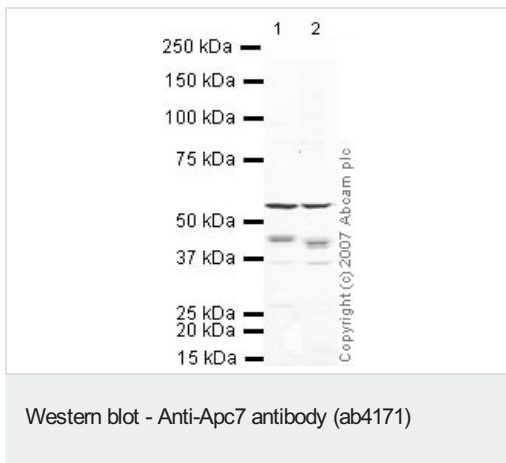
Secondary ab: Goat anti-rabbit IgG HRP conjugate **ab6721** (1/2000)

Exposure time: 1min

Lane 1 and 2: 20µg/lane HeLa Nuclear

Lane 1: ab4171 (1/500)

Lane 2: ab4171 (1/500) + 1.0µg ab4171 peptide



All lanes : Anti-Apc7 antibody (ab4171) at 1 µg/ml

Lane 1 : Heart (Mouse) Tissue Lysate

Lane 2 : Spinal Cord (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

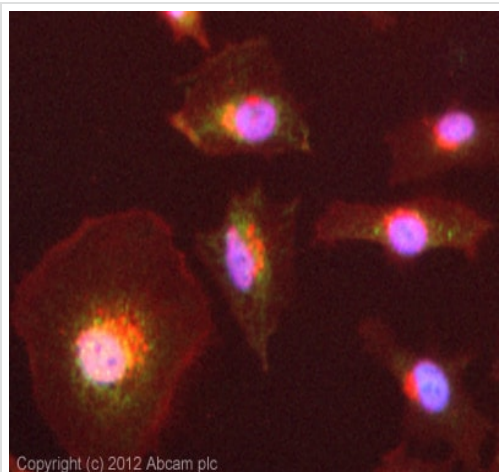
All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 63 kDa

Observed band size: 63 kDa

Additional bands at: 45 kDa. We are unsure as to the identity of these extra bands.



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Immunocytochemistry/ Immunofluorescence - Anti-Apc7 antibody (ab4171)

ICC/IF image of ab4171 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab4171, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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