

## Product datasheet

# Anti-Cdc6 (phospho S54) antibody [EPR759Y] - BSA and Azide free ab247402

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-Cdc6 (phospho S54) antibody [EPR759Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR759Y] to Cdc6 (phospho S54) - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, Dot blot <b>Unsuitable for:</b> Flow Cyt, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Raji + FBS cell lysates. ICC: HeLa cells. Dot Blot: Cdc6 (pS54) phospho peptide.
<b>General notes</b>	ab247402 is the carrier-free version of <a href="#">ab75809</a> .

Our [carrier-free](#) antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR759Y
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab247402 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
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
Dot blot		Use at an assay dependent concentration.

**Application notes** Is unsuitable for Flow Cyt, IHC-P or IP.

## Target

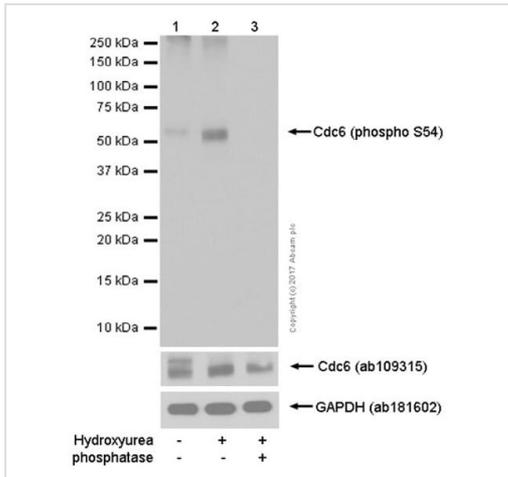
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<b>Function</b>	Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated.
<b>Sequence similarities</b>	Belongs to the CDC6/cdc18 family.
<b>Cellular localization</b>	Nucleus. Cytoplasm. The protein is nuclear in G1 and cytoplasmic in S-phase cells.

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## Images

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Western blot - Anti-Cdc6 (phospho S54) antibody [EPR759Y] - BSA and Azide free (ab247402)

**All lanes :** Anti-Cdc6 (phospho S54) antibody [EPR759Y] (ab75809) at 1/5000 dilution

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** HeLa (human cervix adenocarcinoma epithelial cell) treated with Hydroxyurea (3mM, 20 h) whole cell lysate

**Lane 3 :** HeLa (human cervix adenocarcinoma epithelial cell) treated with Hydroxyurea (3mM, 20 h) whole cell lysate. Then the membrane was incubated with phosphatase.

Lysates/proteins at 15 µg per lane.

### Secondary

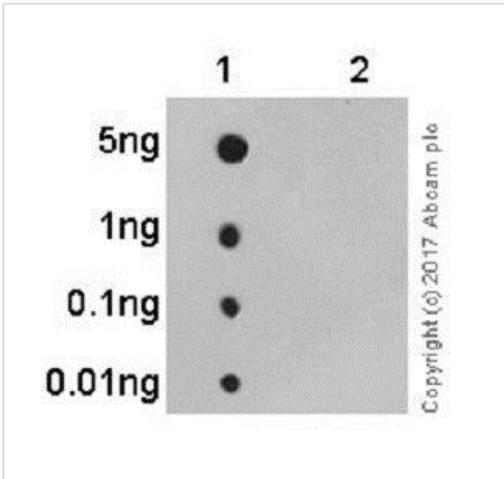
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 63 kDa

**Exposure time:** 30 seconds

Blocking buffer and diluting buffer: 5% NFDM/TBST

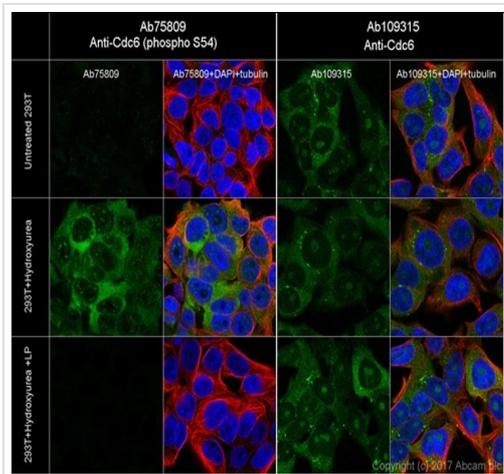
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab75809).



Dot Blot - Anti-Cdc6 (phospho S54) antibody [EPR759Y] - BSA and Azide free (ab247402)

This data was developed using the same antibody clone in a different buffer formulation ([ab97051](#)).

Primary antibody dilution 1:1000 dilution. Secondary antibody used was Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)). Secondary ab dilution 1:100,000 dilution. Blocking buffer and concentration 5% NFDM/TBST. Diluting buffer and concentration 5% NFDM/TBST. Lane 1:Cdc6 (pS54) phospho peptide, Lane 2:Cdc6 non-phospho peptide. Exposure time 3 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Cdc6 (phospho S54) antibody [EPR759Y] - BSA and Azide free (ab247402)

Cell line 293T (Human embryonic kidney epithelial cell). Target AbID Ab75809 anti- Cdc6 (phospho S54).

[ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary. Counterstain AbID Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594). Fixative 4% Paraformaldehyde. Permeabilisation 0.1% tritonX-100. Nuclear counter stain DAPI. Datasheet Comments Confocal image showing the expression was increased after treatment with Hydroxyurea (3mM 20hour), the signal was decreased after treatment with the Lambda Protein Phosphatase 31II for 2h. Target 1oAb dilution 1:100 2.4 µg/ml, Target 2ndry Ab dilution 1:1000 2 µg/mL, Counterstain Ab dilution 1:200 2.5 µg/mL.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab75809](#)).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Cdc6 (phospho S54) antibody [EPR759Y] -  
BSA and Azide free (ab247402)

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

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- Extensive multi-media technical resources to help you
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