abcam

Product datasheet

Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free ab250674

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free
Description	Rabbit monoclonal [EPR17499] to Cdk1 + Cdk2 (phospho T14) - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Dot blot, IP, IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab250674 is the carrier-free version of **ab183550**. 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® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® 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® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17499
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250674 in the following tested applications.

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

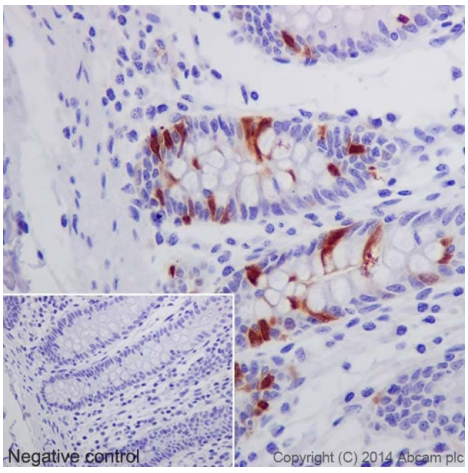
Application	Abreviews	Notes
Dot blot		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).

Target

Relevance Cdk2 is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. Cdk2 is closely related to cdc2 (cdk1) which has proved useful as a marker of proliferation. Cdk1 and Cdk2 are a catalytic subunits of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle.

Cellular localization Cytoplasmic and Nuclear

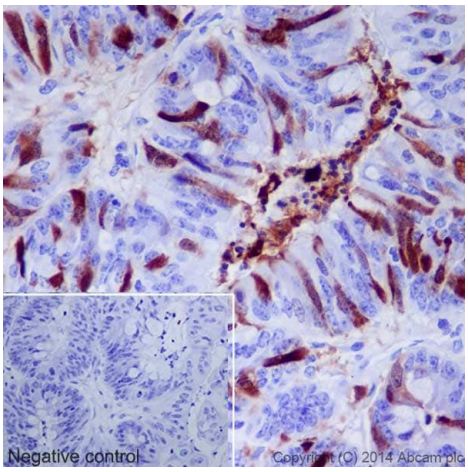
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

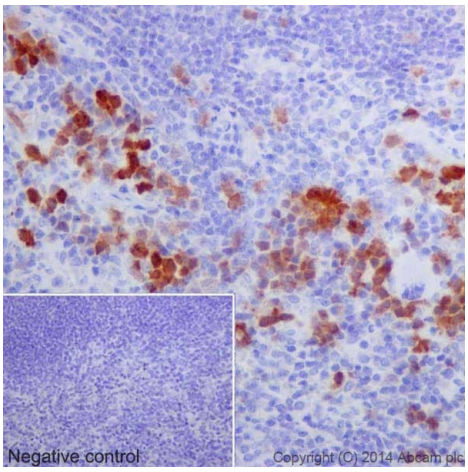
This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Cdk1 + Cdk2 (phospho T14) with **ab183550** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Scattered nuclear and cytoplasmic staining on epithelial cells of Human colon tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



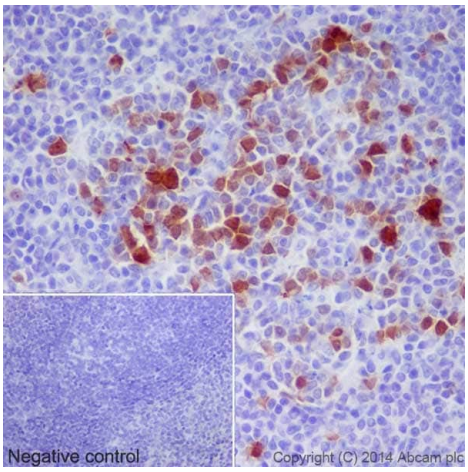
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded Human colonic adenocarcinoma tissue labeling Cdk1 + Cdk2 (phospho T14) with **ab183550** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear and cytoplasmic staining on cancer cells of Human colonic adenocarcinoma tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



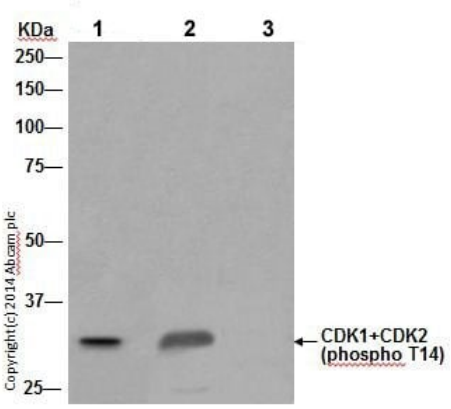
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Cdk1 + Cdk2 (phospho T14) with **ab183550** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear and cytoplasmic staining on lymphocytes of mouse spleen tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



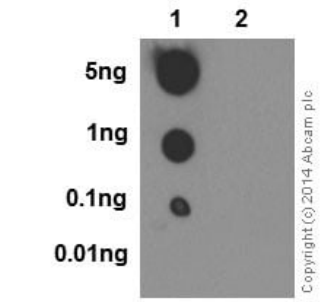
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling Cdk1 + Cdk2 (phospho T14) with **ab183550** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Nuclear and cytoplasmic staining on lymphocytes of rat spleen tissue is observed. Counter stained with Hematoxylin. Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



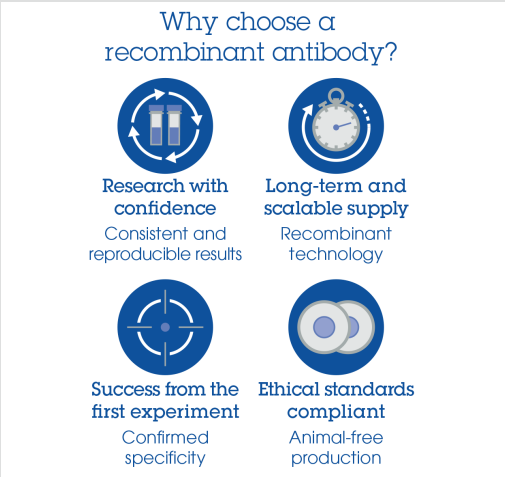
Immunoprecipitation - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.Cdk1 + Cdk2 (phospho T14) was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell extract with **ab183550** at 1/40 dilution. Western blot was performed from the immunoprecipitate using **ab183550** at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1000 dilution.Lane 1 (Input): HeLa whole cell extract 10 µg (Input).Lane 2: **ab183550** IP in HeLa whole cell extract.Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab183550** in HeLa whole cell extract.Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Dot Blot - Anti-Cdk1 + Cdk2 (phospho T14) antibody [EPR17499] - BSA and Azide free (ab250674)

This data was developed using **ab183550**, the same antibody clone in a different buffer formulation.Dot blot analysis of Cdk1 + Cdk2 (phospho T14) peptide (Lane 1), and non-phospho peptide (Lane 2), labeled using **ab183550** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution.Blocking/Dilution buffer: 5% NFDM/TBST.Exposure time = 3 minutes



Anti-Cdk1 + Cdk2 (phospho T14) antibody

[EPR17499] - BSA and Azide free (ab250674)

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