abcam

Product datasheet

Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free ab219586

Recombinant RabMAb

6 References 6 Images

Overview

Product name	Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free
Description	Rabbit monoclonal [E161] to CDK1 + Cdk2 + Cdk3 (phospho T14) - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Cow
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa cell lysate. IHC-P: Human lymphoma.
General notes	ab219586 is the carrier-free version of **ab32384**. 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: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E161
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab219586 in the following tested applications.

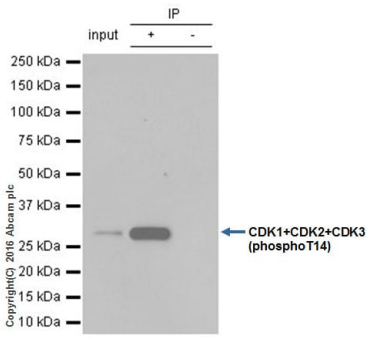
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		Use at an assay dependent concentration.

Target

Cellular localization	CDK1: Nucleus.
Form	CDK1: CDK1 can be located to the Nucleus, cytoplasm and Mithocondria. It's cytoplasmic during interphase and reversibly translocated from cytoplasm to the nucleus when phosphorilated before G2-M transition when associated with cyclin-B1. Accumulates in mitochondria in G2-arrested cells upon DNA-damage.

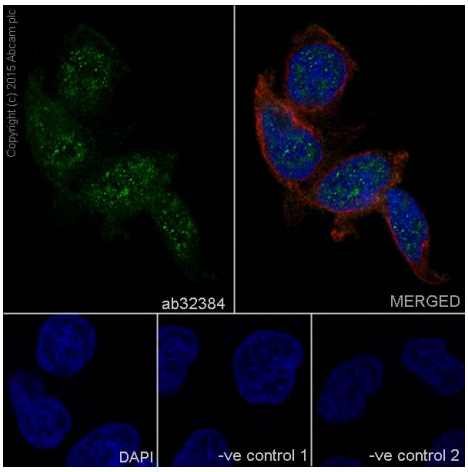
Images



Immunoprecipitation - Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

ab32384 (purified) at 1/50 immunoprecipitating CDK1 in 10 µg HEK293 (Lanes 1 and 2, observed at 34 kDa). Lane 3 - PBS. For western blotting, HRP Veriblot for IP (**ab131366**) was used for detection at 1/1000 dilution. Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST

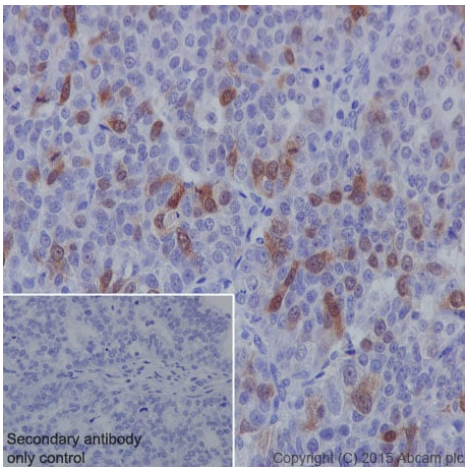
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32384**).



Immunocytochemistry/ Immunofluorescence - Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

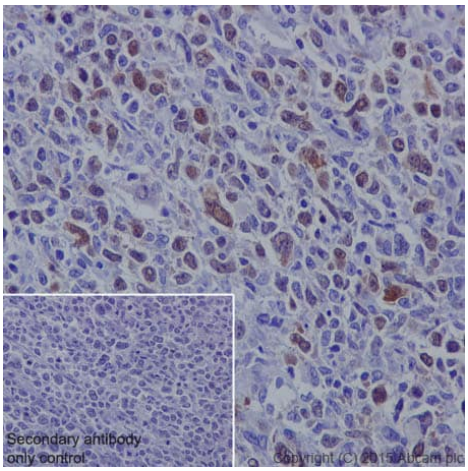
Immunofluorescence staining of HeLa cells with purified **ab32384** at a working dilution of 1/200, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor® 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified **ab32384** was used at a dilution of 1/500 followed by an Alexa Fluor® 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor® 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32384**).



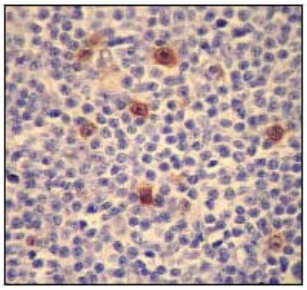
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

Immunohistochemical staining of paraffin embedded human ovarian carcinoma with purified **ab32384** at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32384**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

Immunohistochemical staining of paraffin embedded human B cell lymphoma with purified **ab32384** at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32384**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

Unpurified **ab32384**, at a 1/50 dilution, staining Cdc2 in paraffin embedded human lymphoma tissue sections by Immunohistochemistry.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32384**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Anti-CDK1 + Cdk2 + Cdk3 (phospho T14) antibody [E161] - BSA and Azide free (ab219586)

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