

Product datasheet

Anti-CDK2 (phospho T14) antibody [EP2234Y] ab68265

Recombinant RabMAb

[11 References](#) [6 Images](#)

Overview

Product name	Anti-CDK2 (phospho T14) antibody [EP2234Y]
Description	Rabbit monoclonal [EP2234Y] to CDK2 (phospho T14)
Host species	Rabbit
Specificity	<p>This antibody detects Cdk2 phosphorylated on Threonine 14.</p> <p>The Chinese hamster recommendation is based on the WB result. We do not guarantee IHC-P for Chinese hamster.</p>
Tested applications	<p>Suitable for: WB, IHC-P</p> <p>Unsuitable for: Flow Cyt</p>
Species reactivity	Reacts with: Mouse, Rat, Human, Chinese hamster
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, C2C12 (Mouse myoblasts myoblast) treated with 1mM hydroxyurea for 16 hours, C6 (Rat glial tumor glial cell) treated with 1mM hydroxyurea for 16 hours, CHO-S (Chinese hamster ovary epithelial cell) whole cell lysates. IHC: Human ovarian carcinoma, mouse and rat stomach tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP2234Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab68265 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		1/1000 - 1/10000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The Chinese hamster recommendation is based on the WB result. We do not guarantee IHC-P for Chinese hamster.

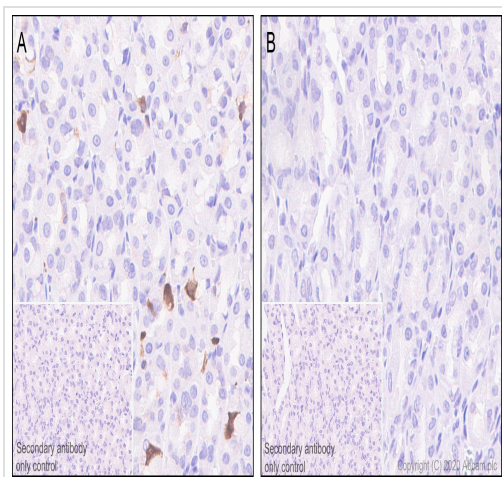
Application notes Is unsuitable for Flow Cyt.

Target

Function Involved in the control of the cell cycle. Interacts with cyclins A, B1, B3, D, or E. Activity of CDK2 is maximal during S phase and G2.

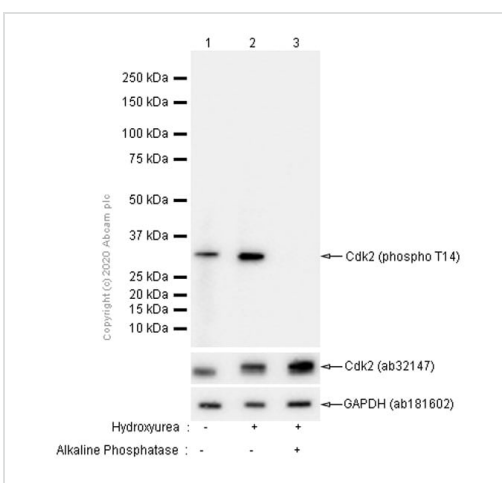
Sequence similarities Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.
Contains 1 protein kinase domain.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue sections labeling CDK2 with Purified 68265 at 1:1000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

All lanes : Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265) at 1/1000 dilution (Purified)

Lane 1 : Untreated HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) starved overnight, then treated with 3mM hydroxyurea for 24 hours whole cell lysate

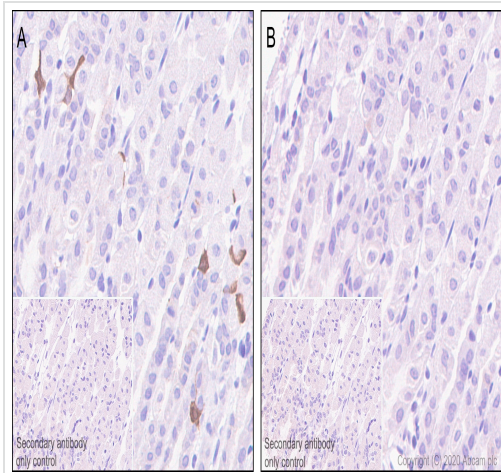
Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) starved overnight, then treated with 3mM hydroxyurea for 24 hours whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

Lysates/proteins at 20 µg per lane.

Secondary

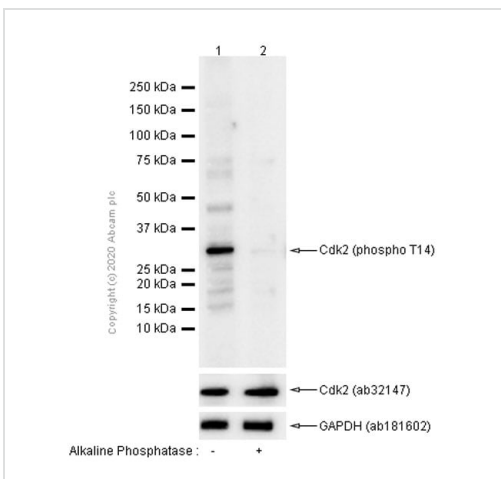
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 34 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse stomach tissue sections labeling CDK2 with Purified 68265 at 1:1000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

All lanes : Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265) at 1/1000 dilution (Purified)

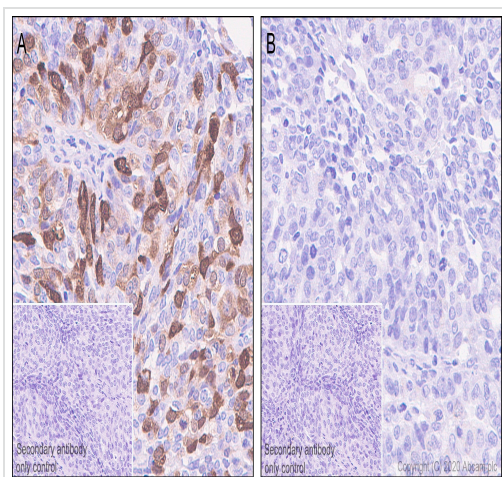
Lane 1 : CHO-S (Chinese hamster ovary epithelial cell) whole cell lysate

Lane 2 : CHO-S (Chinese hamster ovary epithelial cell) whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

Secondary

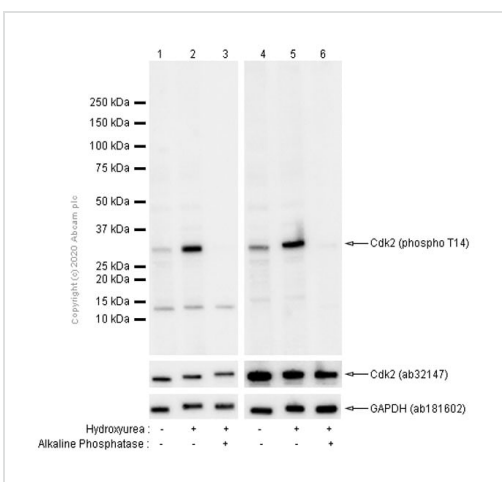
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 34 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue sections labeling CDK2 with Purified 68265 at 1:1000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265)

All lanes : Anti-CDK2 (phospho T14) antibody [EP2234Y] (ab68265) at 1/1000 dilution (Purified)

Lane 1 : Untreated C6 (Rat glial tumor glial cell) whole cell lysate

Lane 2 : C6 (Rat glial tumor glial cell) treated with 1mM hydroxyurea for 16 hours whole cell lysate

Lane 3 : C6 (Rat glial tumor glial cell) treated with 1mM hydroxyurea for 16 hours whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

Lane 4 : Untreated C2C12 (Mouse myoblasts myoblast) whole cell lysate

Lane 5 : C2C12 (Mouse myoblasts myoblast) treated with 1mM hydroxyurea for 16 hours whole cell lysate

Lane 6 : C2C12 (Mouse myoblasts myoblast) treated with 1mM hydroxyurea for 16 hours whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

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: 34 kDa

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

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