

Anti-Cdk2 antibody [SP80] ab101682

敲除验证 重组 RabMAb

4 References 7 图像

概述

产品名称	Anti-Cdk2抗体[SP80]
描述	兔单克隆抗体[SP80] to CDK2
宿主	Rabbit
特异性	Based on the immunogen sequence, we do not expect the antibody to cross-react with other CDK family members. No cross-reactivity testing has been performed.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Cdk2 aa 250 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P24941
阳性对照	IHC-P: Human tonsil, mouse and rat spleen
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.

克隆 单克隆
 克隆编号 SP80
 同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab101682于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/50. Predicted molecular weight: 34 kDa. for 1 hour at RT.
IHC-P		1/100. Incubate for 30 minutes at RT. Antigen retrieval is recommended: boil tissue section in 1mM EDTA, pH 8.0 for 10 min followed by cooling at RT for 20 min.

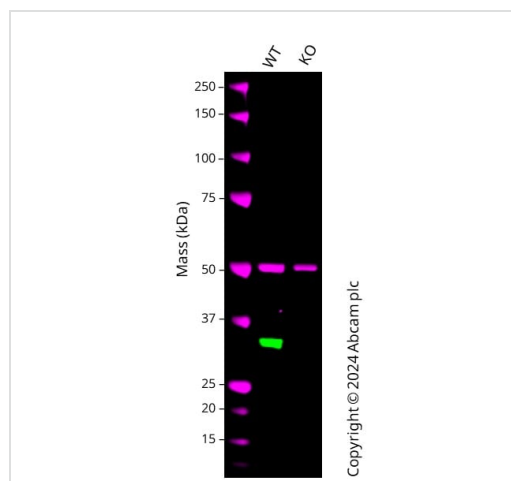
靶标

功能 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.

序列相似性 Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.

Contains 1 protein kinase domain.

图片



Western blot - Anti-Cdk2 antibody [SP80]
 (ab101682)

All lanes : Anti-Cdk2 antibody [SP80] (ab101682) at 1/200 dilution

Lane 1 : Wild-type MCF7 cell lysate

Lane 2 : CDK2 knockout MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

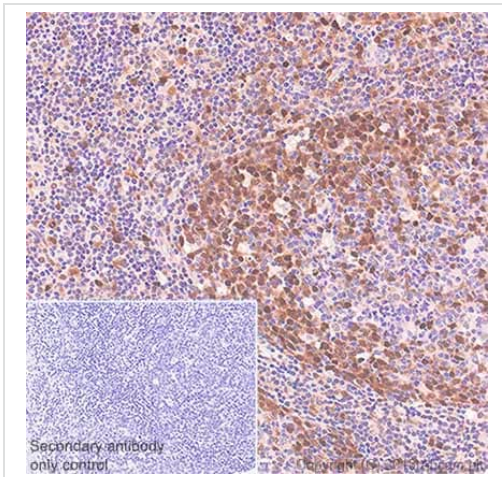
All lanes : Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Predicted band size: 34 kDa

Observed band size: 34 kDa

Western blot: Anti-CDK2 antibody [SP80] (ab101682) staining at

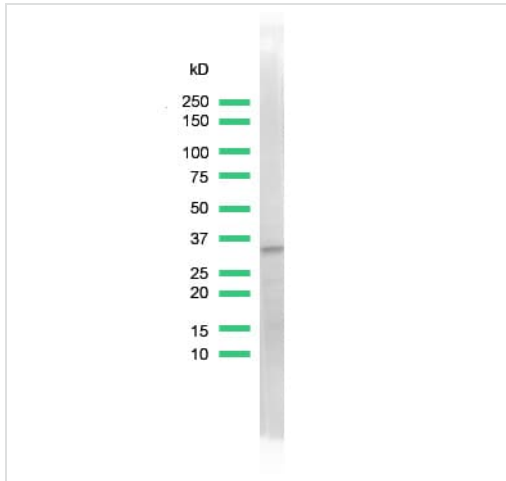
1/200 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab101682 was shown to bind specifically to CDK2. A band was observed at 34 kDa in wild-type MCF7 cell lysates with no signal observed at this size in CDK2 knockout cell line **ab282628**. To generate this image, wild-type and CDK2 knockout MCF7 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Cdk2 with ab101682 at 1/50 dilution (2.20 µg/ml). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Mainly nuclear staining on the human tonsil, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab101682 for 30 mins at room temperature.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk2 antibody [SP80] (ab101682)

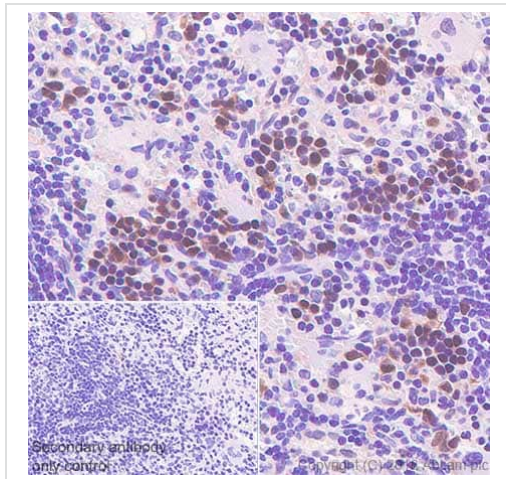


Western blot - Anti-Cdk2 antibody [SP80]
(ab101682)

Anti-Cdk2 antibody [SP80] (ab101682) at 1/100 dilution + lysate prepared from HeLa cells

Predicted band size: 34 kDa

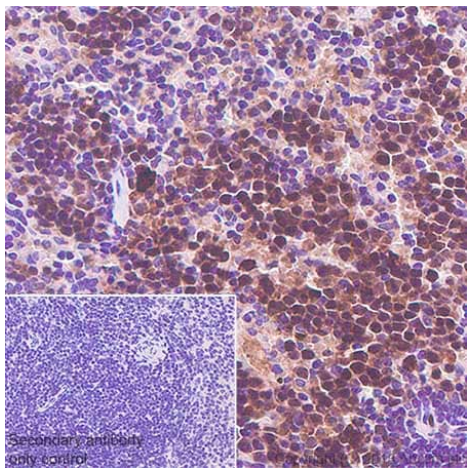
Observed band size: 33 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk2 antibody [SP80]
(ab101682)

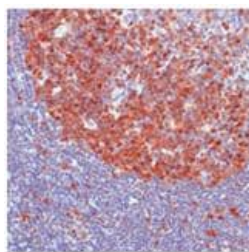
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat spleen tissue sections labeling Cdk2 with ab101682 at 1/50 dilution (2.20 µg/ml). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Mainly nuclear staining on the rat spleen, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab101682 for 30 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk2 antibody [SP80] (ab101682)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse spleen tissue sections labeling Cdk2 with ab101682 at 1/50 dilution (2.20 µg/ml). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Mainly nuclear staining on the mouse spleen, performed on a Leica Biosystems BOND™ RX instrument. The section was incubated with ab101682 for 30 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk2 antibody [SP80] (ab101682)

Immunohistochemical analysis of Cdk2 expression in formalin-fixed, paraffin-embedded Human tonsil using ab101682 at 1/100 dilution.

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-Cdk2 antibody [SP80] (ab101682)

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