abcam

Product datasheet

Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR ab133463

重组 RabMAb

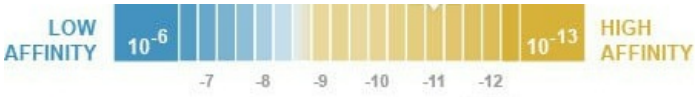
★★★★★ 3 Abreviews 14 References 15 图像

概述

产品名称	Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15)**抗体**[EPR
描述	**兔单克隆抗体**[EPR7875] to CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15)
宿主	Rabbit
特异性	The antibody will cross-react with phosphorylated CDK1 (pY15), CDK2 (pY15), CDK3 (pY15) and CDK5 (pY15) but not with non-phosphorylated CDK1, CDK2, CDK3 and CDK5. Please see our ELISA results on the images section.
经测试应用	**适用于:** WB, IHC-P, ELISA, Dot blot
种属反应性	**与反应:** Mouse, Rat, Human, Recombinant fragment
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa cell lysate treated with UV, human colon, C6 cell lysate, NIH/3T3 cell lysate, Saso2 cells, human breast carcinoma tissue
常规说明	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**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K_D)	K_D = 4.10 x 10^{-11} M



Learn more about K_D

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR7875
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab133463于以下的经测试应用

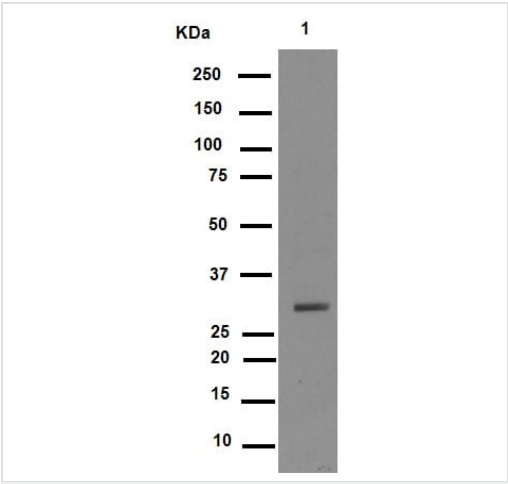
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000 - 1/2000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P	★★★★★ (1)	1/50 - 1/75. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration.
Dot blot		1/1000.

靶标

细胞定位	CDK1: Nucleus. CDK5: Cytoplasm. Cell projection > lamellipodium. Cell projection > growth cone. In axonal growth cone with extension to the peripheral lamellipodia.
形式	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.

图片



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/1000 dilution (purified) + HeLa cell lysate treated with UV at 10 µg

Secondary

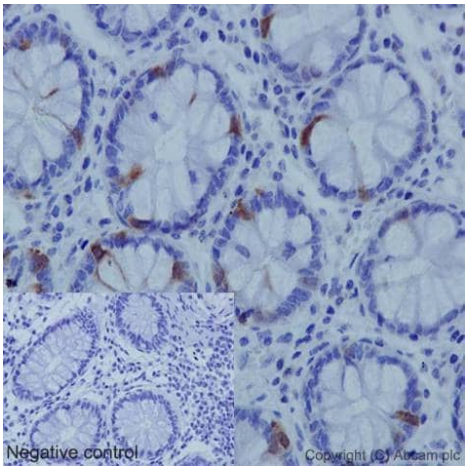
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 34 kDa

Observed band size: 34 kDa

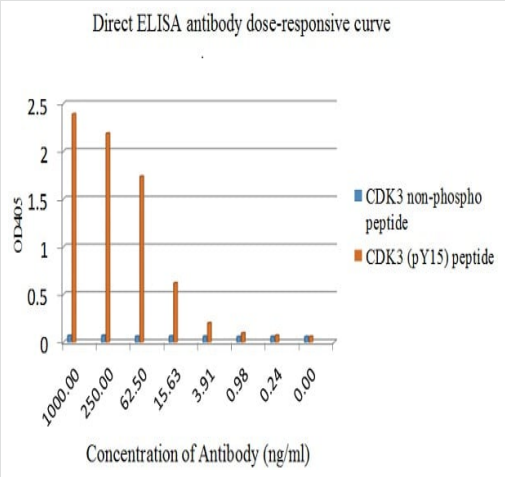
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



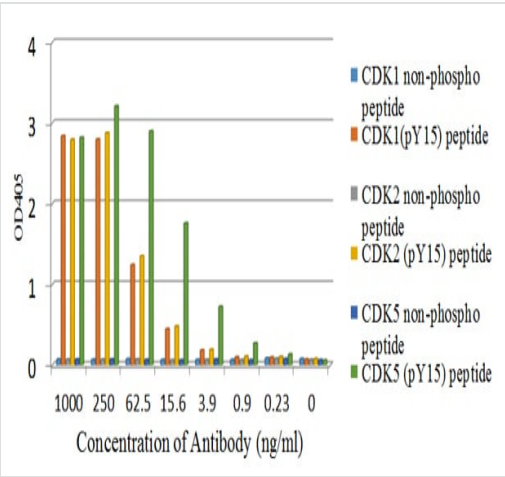
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Immunohistochemical staining of paraffin embedded human colon with purified ab133463 at a working dilution of 1 in 75. The secondary antibody used is a HRP polymer for rabbit IgG. 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.



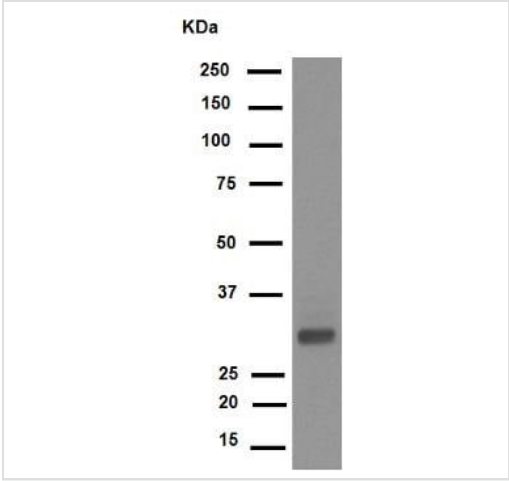
ELISA - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Direct ELISA antibody dose-response curve using purified ab133463 at 0-1000 ng/ml. Antigen concentration of 1000 ng/mL. An alkaline phosphatase-conjugated goat anti-rabbit IgG (H+L) (1/2500) was used as the secondary antibody.



ELISA - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Direct ELISA antibody dose-response curve using purified ab133463 at 0-1000 ng/ml. Antigen concentration of 1000 ng/mL. An alkaline phosphatase-conjugated goat anti-rabbit IgG (H+L) (1/2500) was used as the secondary antibody.



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/2000 dilution (purified) + C6 cell lysate at 10 µg

Secondary

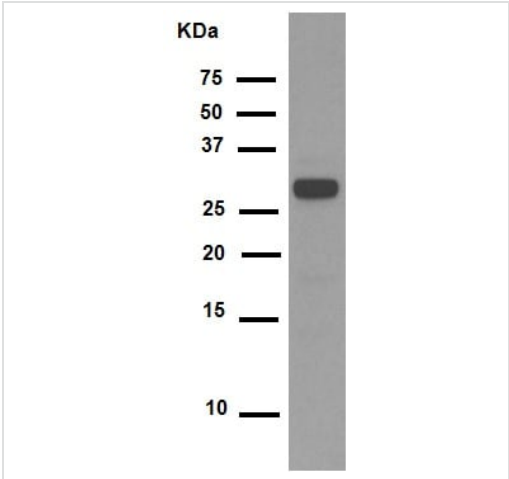
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 34 kDa

Observed band size: 34 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/2000 dilution (purified) + NIH/3T3 cell lysate at 10 µg

Secondary

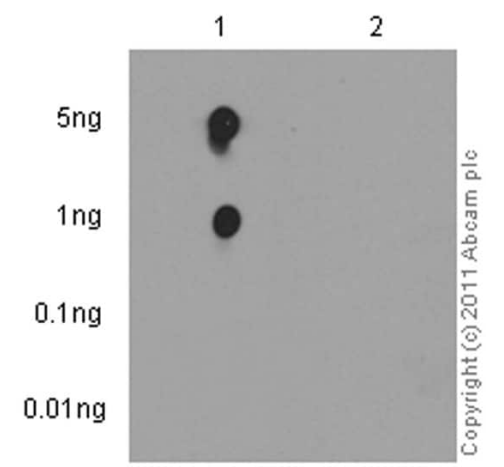
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 34 kDa

Observed band size: 34 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

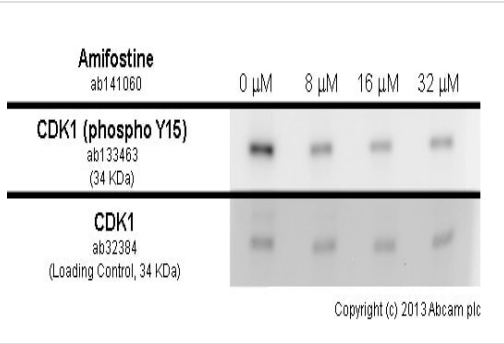


Dot Blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Dot blot analysis of CDK1+CDK2+CDK3+CDK5 (pY15) phospho peptide (lane 1) and CDK1+CDK2+CDK3+CDK5 non-phospho peptide (lane 2) labelling CDK1+CDK2+CDK3+CDK5 (phospho Y15) with unpurified ab133463 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/2500).

Blocking and dilution buffer: 5% NFDM/TBST.

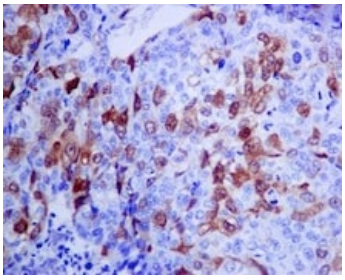
Exposure time: 10 seconds.



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

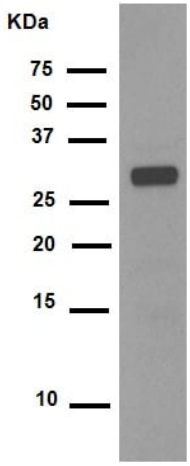
Saso2 cells were incubated at 37°C for 24 hours with vehicle control (0 µM) and different concentrations of Amifostine (**ab141060**). Decreased expression of CDK1 (phospho Y15) (unpurified ab133463) in Saso2 cells correlates with an increase in Amifostine concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with unpurified ab133463 at 1 µg/ml and **ab32384** at 1 µg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 and visualised using ECL development solution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Immunohistochemical analysis of paraffin embedded human breast carcinoma tissue labelling CDK1+CDK2+CDK3+CDK5 with unpurified ab133463 at 1/50 dilution. Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

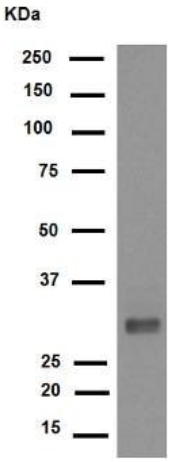
Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/1500 dilution (unpurified) + NIH/3T3 cell lysate at 1/1000 dilution

Secondary
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 34 kDa
Observed band size: 34 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

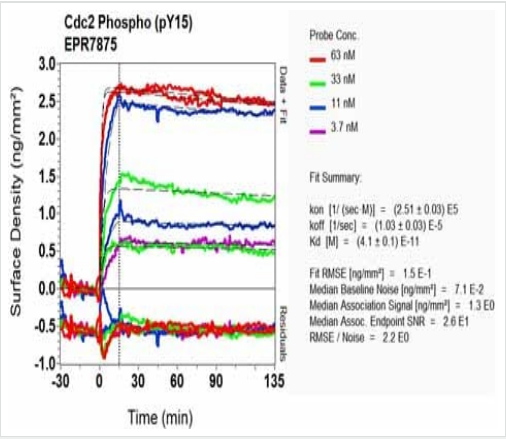
Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/1500 dilution (unpurified) + C6 cell lysate at 10 µg

Secondary
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 34 kDa
Observed band size: 34 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

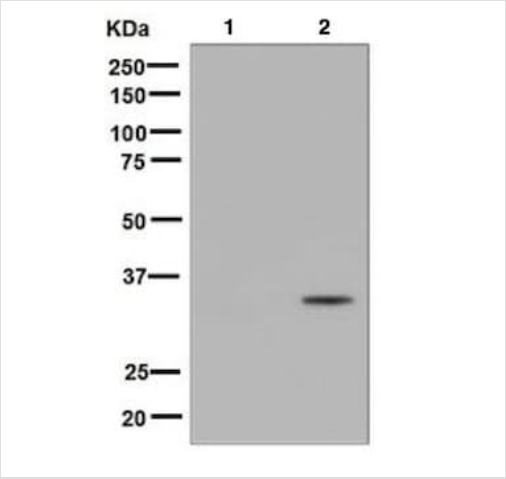


OI-RD Scanning - Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Western blot - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

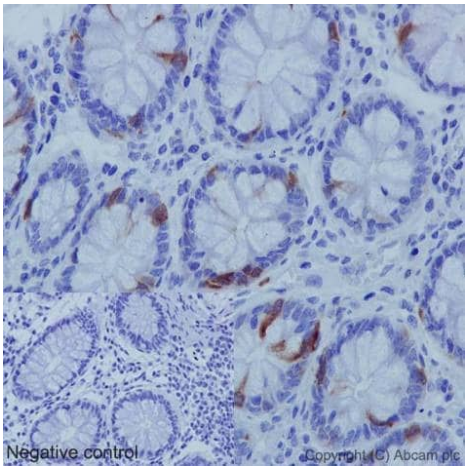
All lanes : Anti-CDK1 (phospho Y15) + CDK2 (phospho Y15) + CDK3 (phospho Y15) + CDK5 (phospho Y15) antibody [EPR (ab133463) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate
Lane 2 : HeLa cell lysate treated with UV

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 34 kDa
Observed band size: 34 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDK1+CDK2+CDK3+CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

Immunohistochemical staining of paraffin embedded human colon with unpurified ab133463 at a working dilution of 1 in 50. The secondary antibody used is a HRP polymer for rabbit IgG. 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.

Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15) antibody [EPR7875] (ab133463)

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