# abcam

## Product datasheet

# Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15) antibody [EPR2233Y] ab76146

重组 RabMAb

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概述

产品名称 Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15)抗体[EPR2233Y]

描述 兔单克隆抗体[EPR2233Y] to CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15)

宿主 Rabbit

特异性 This antibody detects Cdk1, 2, 3, 5 phosphorylated on tyrosine 15.

经测试应用 适用于: IHC-P, Dot blot, WB, IP

不适用于: ICC/IF

种属反应性 与反应: Rat, Human, Recombinant fragment

预测可用于: Mouse 📤

免疫原 Synthetic peptide within Human CDK2 (phospho Y15). The exact sequence is proprietary.

阳性对照 WB: HeLa cell and mouse spleen tissue lysates; 293T (human embryonic kidney epithelial cell)

transfected with GFP-tagged blank expression vector, whole cell lysate; 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK1/2/3/5 expression vector, whole cell lysate IHC-P: Human transitional cell carcinoma of bladder and rat colon tissues. IP: HeLa whole

cell lysate (ab150035).

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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**<sup>®</sup> **patents**.

性能

形式 Liquid

**存放说明** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Avoid freeze / thaw cycle.

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**存储溶液** pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: PBS, 40% Glycerol, 0.05% BSA

纯**度** Protein A purified

**克隆** 单克隆

**克隆编号** EPR2233Y

**同种型** IgG

#### 应用

### The Abpromise guarantee Abpromise™承诺保证使用ab76146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
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> .
Dot blot		1/1000.
WB	*** <u>*</u>	1/10000. Detects a band of approximately 33 kDa (predicted molecular weight: 34 kDa).  For unpurified use at 1/1000 - 1/10000.
		A band of 65 kDa is also observed in 293T cells overexpressing cdk1, 2, 3, 5 (phospho Y15)
IP		1/100. For unpurified use at 1/50.

应用说明 Is unsuitable for ICC/IF.

靶标

细胞定位 Cdk1: Nucleus. Cdk5: Cytoplasm. Cell projection > lamellipodium. Cell projection > growth cone.

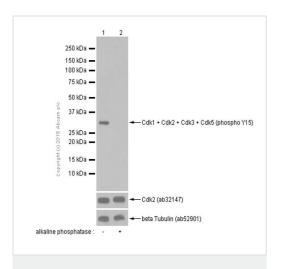
In axonal growth cone with extension to the peripheral lamellipodia.

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 [EPR2233Y] (ab76146)

All lanes: Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15) antibody [EPR2233Y] (ab76146) at 1/50000 dilution

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

**Lane 2**: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate, treated with alkaline phosphatase for 1hour

Lysates/proteins at 15 µg per lane.

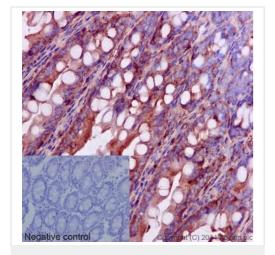
#### **Secondary**

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

Predicted band size: 34 kDa

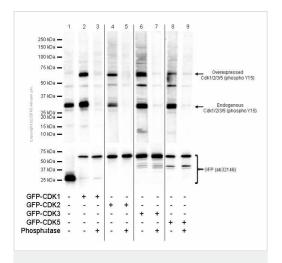
Exposure time: 10 seconds

Blocking/diluting buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat colon tissue labelling Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) with purified ab76146 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer, pH 9. A prediluted HRP polymer-conjugated anti-rabbit lgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

**All lanes :** Anti-CDK1 + CDK2 + CDK3 + CDK5 (phospho Y15) antibody [EPR2233Y] (ab76146) at 1/1000 dilution

**Lane 1 :** 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged blank expression vector, whole cell lysate

**Lane 2**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK1 expression vector, whole cell lysate

**Lane 3**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK1 expression vector, whole cell lysate. Then the membrane was incubated with phosphatase

**Lane 4**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK2 expression vector, whole cell lysate

**Lane 5**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK2 expression vector, whole cell lysate. Then the membrane was incubated with phosphatase

**Lane 6 :** 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK3 expression vector, whole cell lysate

**Lane 7**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK3 expression vector, whole cell lysate. Then the membrane was incubated with phosphatase

Lane 8: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK5 expression vector, whole cell lysate

**Lane 9**: 293T (human embryonic kidney epithelial cell) transfected with GFP-tagged CDK5 expression vector, whole cell lysate. Then the membrane was incubated with phosphatase

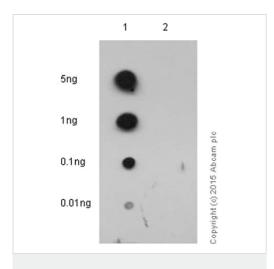
Lysates/proteins at 20 µg per lane.

### Secondary

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

Predicted band size: 34 kDa Observed band size: 34,65 kDa

ab76146 detects Cdk1, 2, 3, 5 phosphorylated on tyrosine 15.



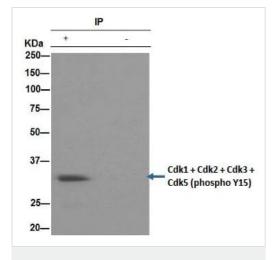
Dot Blot - Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

Dot blot analysis of Cdk2 (pY15) peptide (Lane 1) and Cdk2 non-phospho peptide (Lane 2) labelling Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) with purified ab76146 at a dilution of 1/1000. **ab97051** (Peroxidase conjugated goat anti-rabbit lgG (H+L)) was

<u>ab97051</u> (Peroxidase conjugated goat anti-rabbit lgG (H+L)) was used as the secondary antibody at a dilution of 1/100000.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

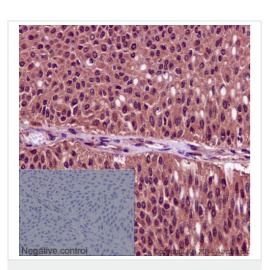


Immunoprecipitation - Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

ab76146 (purified) at 1/100 immunoprecipitating Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) in HeLa cell lysates (Lane 1). Lane 2 - PBS. For western blotting, a HRP-conjugated anti-rabbit lgG, specific to the non-reduced form of lgG was used as the secondary antibody (1/1500).

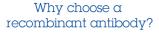
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human transitional cell carcinoma of bladder tissue labelling Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) with purified ab76146 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer, pH 9. A prediluted HRP polymer-conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.





Consistent and reproducible results

Long-term and scalable supply Recombinant technology





first experiment Confirmed specificity

Success from the Ethical standards compliant Animal-free production

Anti-Cdk1 + Cdk2 + Cdk3 + Cdk5 (phospho Y15) antibody [EPR2233Y] (ab76146)

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

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