

## Product datasheet

# Anti-Cdk1-2-3-5 antibody [EP762RY] - BSA and Azide free ab284857

Recombinant RabMAb

[3 Images](#)

### Overview

<b>Product name</b>	Anti-Cdk1-2-3-5 antibody [EP762RY] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP762RY] to Cdk1-2-3-5 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa and 293T whole cell lysates. 293T transfected with CDK1-2-3-5 expression vector containing a GFP-myc-tag® whole cell lysate. IHC-P: Human lung carcinoma tissue.
<b>General notes</b>	<p>ab284857 is the carrier-free version of <a href="#">ab206314</a>.</p> <p>This product has switched from a hybridoma to recombinant production method on 30th September 2022.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

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](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP762RY
<b>Isotype</b>	IgG

## Applications

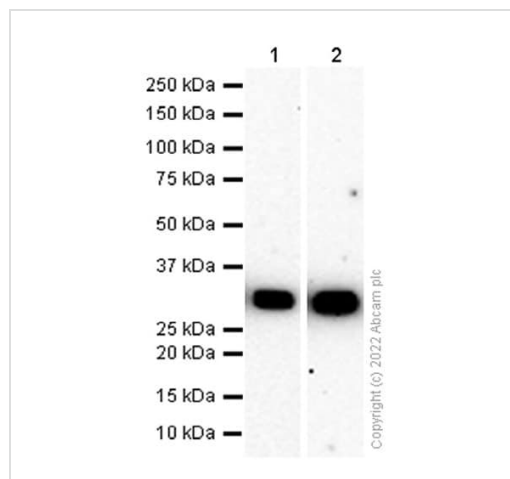
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab284857 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

**Relevance** CDK1 (P06493): Plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as mitotic onset; promotes G2-M transition, and regulates G1 progress and G1-S transition via association with multiple interphase cyclins. Required in higher cells for entry into S-phase and mitosis. CDK2 (P24941): Serine/threonine-protein kinase involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. CDK3 (Q00526): Serine/threonine-protein kinase that plays a critical role in the control of the eukaryotic cell cycle; involved in G0-G1 and G1-S cell cycle transitions. Interacts with CCNC/cyclin-C during interphase. CDK5 (Q00535): Proline-directed serine/threonine-protein kinase essential for neuronal cell cycle arrest and differentiation and may be involved in apoptotic cell death in neuronal diseases by triggering abortive cell cycle re-entry. Interacts with D1 and D3-type G1 cyclins.



Western blot - Anti-Cdk1-2-3-5 antibody [EP762RY]  
- BSA and Azide free (ab284857)

**All lanes :** Anti-Cdk1-2-3-5 antibody [EP762RY] (**ab206314**) at 1/5000 dilution

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

**Lane 2 :** 293T (Human embryonic kidney epithelial cell) whole cell lysate

Lysates/proteins at 15 µg per lane.

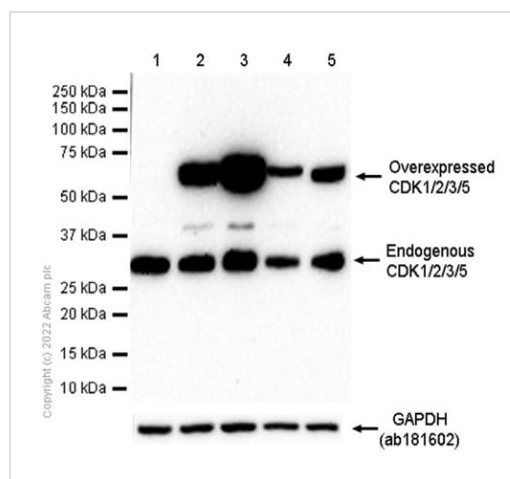
**Secondary**

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

**Predicted band size:** 33 kDa

**Blocking and diluting buffer and concentration:** 5% NFDm/TBST.

**Exposure:** Lane 1 (180 seconds); Lane 2 (120 seconds).



Western blot - Anti-Cdk1-2-3-5 antibody [EP762RY]  
- BSA and Azide free (ab284857)

**All lanes :** Anti-Cdk1-2-3-5 antibody [EP762RY] (**ab206314**) at 1/5000 dilution

**Lane 1 :** 293T (Human embryonic kidney epithelial cell) transfected with an empty vector containing a GFP-myc-tag® whole cell lysate

**Lane 2 :** 293T (Human embryonic kidney epithelial cell) transfected with CDK1 expression vector containing a GFP-myc-tag® whole cell lysate

**Lane 3 :** 293T (Human embryonic kidney epithelial cell) transfected with CDK2 expression vector containing a GFP-myc-tag® whole cell lysate

**Lane 4 :** 293T (Human embryonic kidney epithelial cell) transfected with CDK3 expression vector containing GFP-Myc tag® whole cell lysate

**Lane 5 :** 293T (Human embryonic kidney epithelial cell) transfected with CDK5 expression vector containing GFP-Myc tag® whole cell lysate

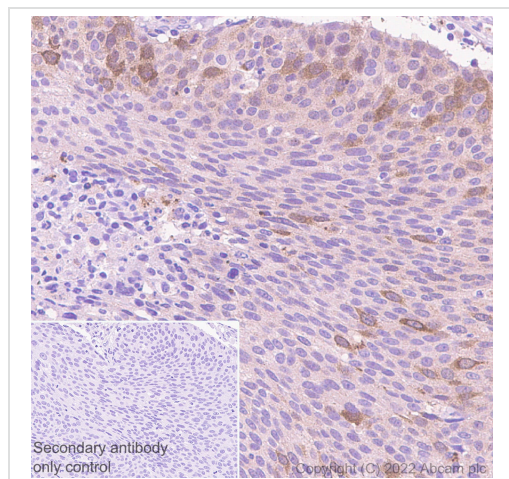
Lysates/proteins at 20 µg per lane.

## Secondary

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

**Predicted band size:** 33 kDa

**Blocking and diluting buffer and concentration:** 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human lung carcinoma labeling Cdk1-2-3-5 with **ab206314** at 1/500 (1.95 µg/ml) followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The section was incubated with **ab206314** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk1-2-3-5 antibody [EP762RY] - BSA and Azide free (ab284857)

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

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