

Product datasheet

Anti-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53] ab32030

Recombinant RabMAb

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Overview

Product name	Anti-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53]
Description	Rabbit monoclonal [E53] to CDK1 + CDK2 + CDK3 + CDK5
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt or IHC
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Hela cell lysate.
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, Rat: We have preliminary internal testing data to indicate this antibody may not react with these 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	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number E53

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32030 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		1/2000 - 1/10000. Detects a band of approximately 35 kDa (predicted molecular weight: 34 kDa).

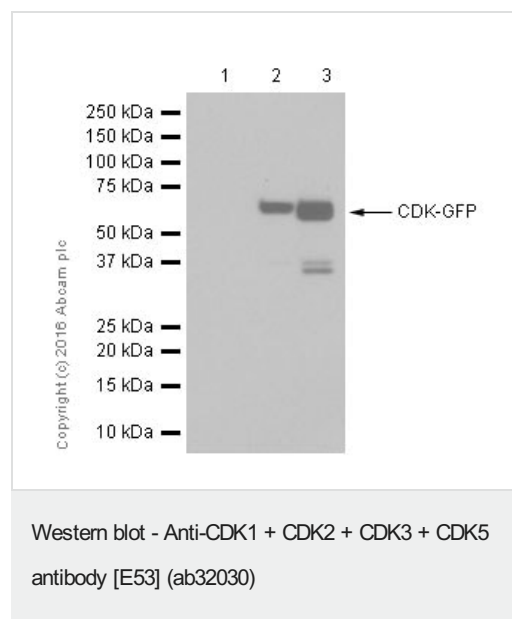
Application notes Is unsuitable for Flow Cyt or IHC.

Target

Cellular localization CDK1: Nucleus. CDK5: Cytoplasm. Cell projection > lamellipodium. Cell projection > growth cone. In axonal growth cone with extension to the peripheral lamellipodia.

Form CDK1: CDK1 can be located to the Nucleus, cytoplasm and Mitochondria. It's cytoplasmic during interphase and reversibly translocated from cytoplasm to the nucleus when phosphorylated before G2-M transition when associated with cyclin-B1. Accumulates in mitochondria in G2-arrested cells upon DNA-damage.

Images



All lanes : Anti-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53] (ab32030) at 1/10000 dilution

Lane 1 : Empty vector transfected 293T (human embryonic kidney) whole cell lysates

Lane 2 : CDK2-GFP transfected 293T (human embryonic kidney) whole cell lysates

Lane 3 : CDK3-GFP transfected 293T (human embryonic kidney) whole cell lysates

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

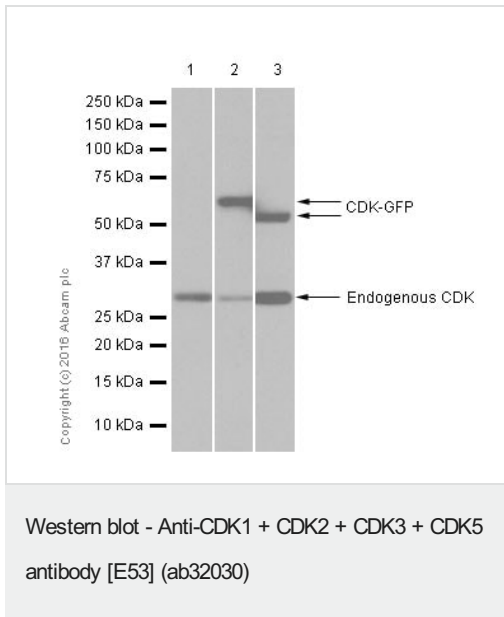
Observed band size: 62 kDa

Exposure time: 1 second

Blocking/Diluting buffer 5% NFDM/TBST

The endogenous CDK is detected at higher exposure.

We are not sure the bands around 35kDa. Perhaps they are degradation products.



All lanes : Anti-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53] (ab32030) at 1/2000 dilution

Lane 1 : Empty vector transfected 293T (human embryonic kidney) whole cell lysates

Lane 2 : CDK1-GFP transfected 293T (human embryonic kidney) whole cell lysates

Lane 3 : CDK5-GFP transfected 293T (human embryonic kidney) whole cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

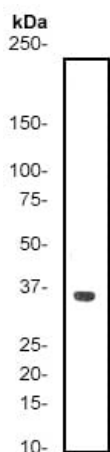
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 34 kDa

Exposure time: 15 seconds

Blocking/Diluting buffer 5% NFDM/TBST

34kDa band represents endogenous CDK, and 62kDa represents CDK-GFP.



Anti-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53] (ab32030) at
1/5000 dilution + HeLa cell lysate

Predicted band size: 34 kDa

Observed band size: 35 kDa

Western blot - Anti-CDK1 + CDK2 + CDK3 + CDK5
antibody [E53] (ab32030)

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-CDK1 + CDK2 + CDK3 + CDK5 antibody [E53]
(ab32030)

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