

Product datasheet

Anti-Cdk6 antibody [8H4] ab54576

KO VALIDATED

[14 References](#) [3 Images](#)

Overview

Product name	Anti-Cdk6 antibody [8H4]
Description	Mouse monoclonal [8H4] to Cdk6
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment: KDGLCRADQQ YECVAEIGEG AYGKVFKARD LKNGGRFVAL KRVRVQTGEE GMPLSTIREV AVLRHLETFE HPNVVRLFDV CTVSRTDRET KLTLVFE, corresponding to amino acids 3-100 of Human Cdk6 Run BLAST with Expasy Run BLAST with NCBI
Positive control	WB: HAP1, HeLa and Jurkat cell lysates.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 5th December 2019. Lot numbers higher than GR3279055 are from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.4
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	8H4
Isotype	IgG1
Light chain type	kappa

Applications

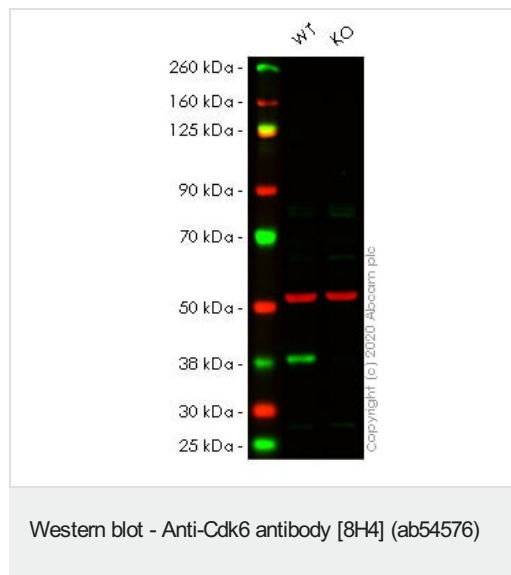
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab54576 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 37 kDa.

Target

Function	Probably involved in the control of the cell cycle. Interacts with D-type G1 cyclins.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.

Images



All lanes : Anti-Cdk6 antibody [8H4] (ab54576)

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : CDK6 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

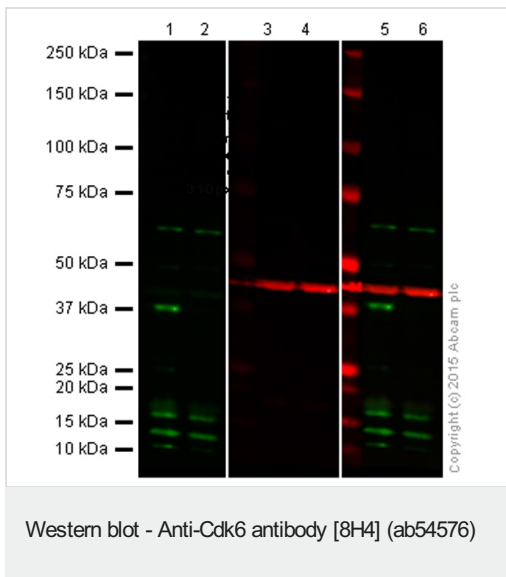
Predicted band size: 37 kDa

Observed band size: 37 kDa

Lanes 1-2: Merged signal (red and green). Green - ab54576 observed at 37 kDa. Red - Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker (**ab52866**) observed at 50 kDa.

ab54576 was shown to react with Cdk6 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line

ab266059 (knockout cell lysate **ab257088**) was used. Wild-type HeLa and CDK6 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab54576** and Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker (**ab52866**) overnight at 4°C at a 1 µg/ml and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye®800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye®680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Lanes 1-2 : Anti-Cdk6 antibody [8H4] (**ab54576**) at 1 µg

Lanes 3-4 : Anti-beta Actin antibody (**ab8227**) at 1/2000 dilution

Lanes 1 & 3 : Wild-type HAP1 cell lysate

Lanes 2 & 4 : CDK6 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 37 kDa

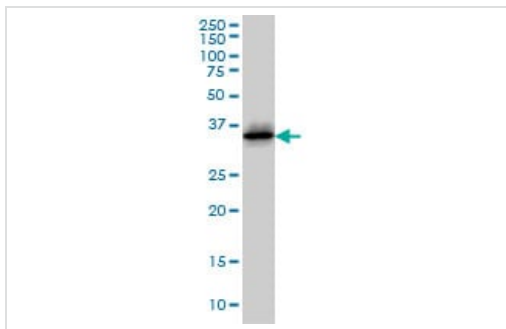
Lanes 1 and 2: Green signal from target – **ab54576** observed at 37 kDa

Lanes 3 and 4: Red signal from loading control – **ab8227** observed at 42 kDa

Lanes 5 and 6: Merged (red and green) signal

ab54576 was shown to react with CDK6 when CDK6 knockout samples were used, along with additional cross-reactive bands. Wild-type and CDK6 knockout samples were subjected to SDS-PAGE. **ab54576** and **ab8227** (loading control to beta actin) were diluted 1 µg/mL and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.

This image was generated using the ascites version of the product.



Western blot - Anti-Cdk6 antibody [8H4] (ab54576)

Cdk6 antibody (ab54576) at 1ug/lane + Jurkat cell lysate at 25ug/lane.

This image was generated using the ascites version of the product.

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