


Product datasheet

Anti-CLK2 antibody ab86147

★★★★★ [4 Abreviews](#) [3 References](#) [3 Images](#)

Overview

Product name	Anti-CLK2 antibody
Description	Rabbit polyclonal to CLK2
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	Suitable for: WB, ICC
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Chinese hamster 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa whole cell lysate. ICC: HepG2 cells.
General notes	<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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our</p>

	scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

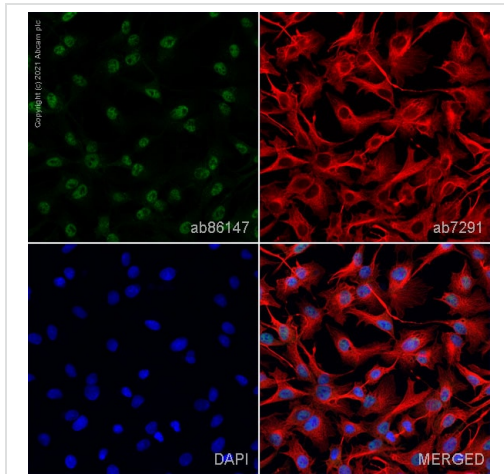
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86147 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 0.5 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
ICC		Use a concentration of 1 µg/ml.

Target

Function	Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates serines, threonines and tyrosines.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. Lammer subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylates on all three types of residues.
Cellular localization	Nucleus.

Images



Immunocytochemistry - Anti-CLK2 antibody
(ab86147)

ab86147 staining CLK2 in HepG2 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab86147 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

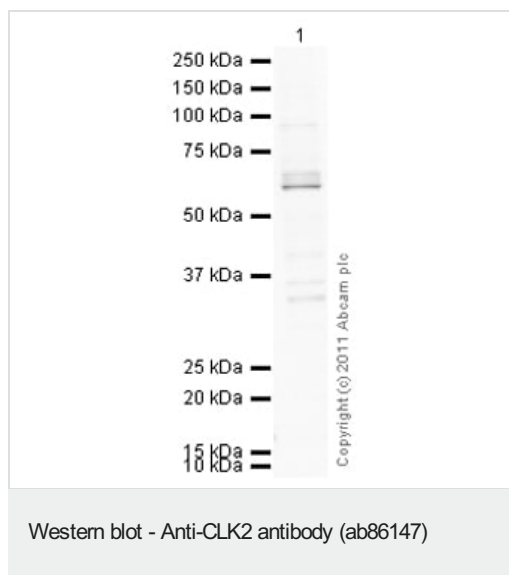
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunocytochemistry - Anti-CLK2 antibody
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This image is courtesy of an Abreview submitted by Eleni Petsalaki

ab86147 staining CLK2 in human colon carcinoma cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with methanol and blocked with 1% BSA for 30 minutes at 37°C. Samples were incubated with primary antibody (1/30 in PBS + 1% BSA) for 16 hour at 4°C. A FITC-conjugated goat anti-rabbit IgG polyclonal (1/100) was used as the secondary antibody.



Anti-CLK2 antibody (ab86147) at 0.5 µg/ml + HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 60 kDa

Observed band size: 60 kDa

Additional bands at: 36 kDa, 64 kDa, 94 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

Human Dual specificity protein kinase CLK2 contains a number of potential phosphorylation sites (SwissProt) which may explain the banding pattern at a higher molecular weight than predicted (64 kDa).

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