


Product datasheet

Anti-Chk1 (phospho S345) antibody ab58567

★★★★☆ [4 Abreviews](#) [17 References](#) [3 Images](#)

Overview

Product name	Anti-Chk1 (phospho S345) antibody
Description	Rabbit polyclonal to Chk1 (phospho S345)
Host species	Rabbit
Specificity	Specific for Chk1 (phospho S345) in ELISA, with <1% reactivity with the non-modified form of the immunogen.
Tested applications	Suitable for: WB, IHC-P, ELISA
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Chicken, Cow 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in Hydroxyurea Treated (48hr, 2uM) Hela whole cell lysate. IHC-P: FFPE Human cervix normal.
General notes	<p>Please note we cannot guarantee ICC/IF, however should you use this application for this product then please use a specific protocol which can be found in the protocols section of our datasheet here.</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. 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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

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 scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

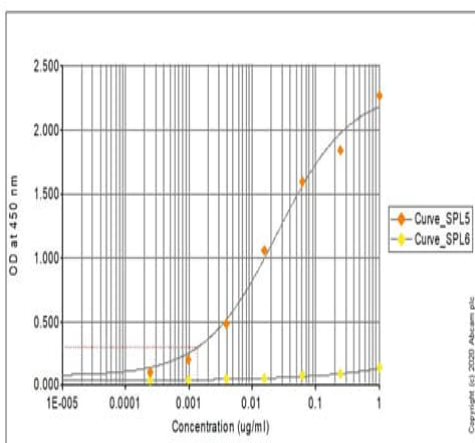
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab58567 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	★★★★★ (4)	Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IHC-P		Use a concentration of 1 - 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration.

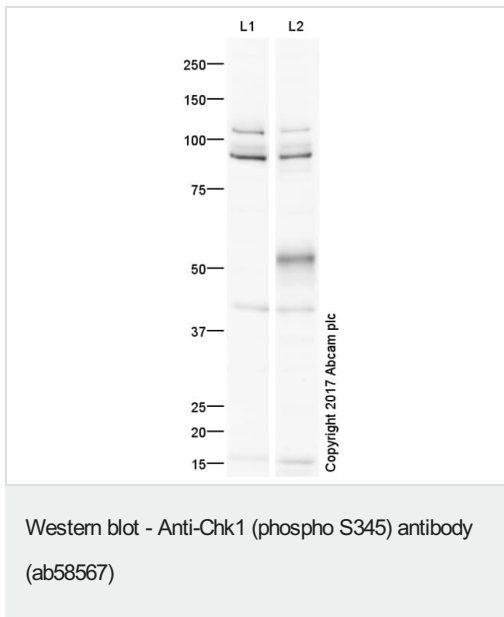
Target

Images



ELISA - Anti-Chk1 (phospho S345) antibody
(ab58567)

ELISA using ab58567 at varying antibody concentrations. Curve_SPL5 indicates binding to the Chk1 (phospho S345) peptide. Binding to the following peptides was not seen: Chk1 control peptide (Curve_SPL6).



All lanes : Anti-Chk1 (phospho S345) antibody (ab58567) at 1 µg/ml

Lane 1 : HeLa Whole Cell Lysate - Untreated

Lane 2 : HeLa Whole Cell Lysate - Hydroxyurea Treated (48hr, 2uM)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

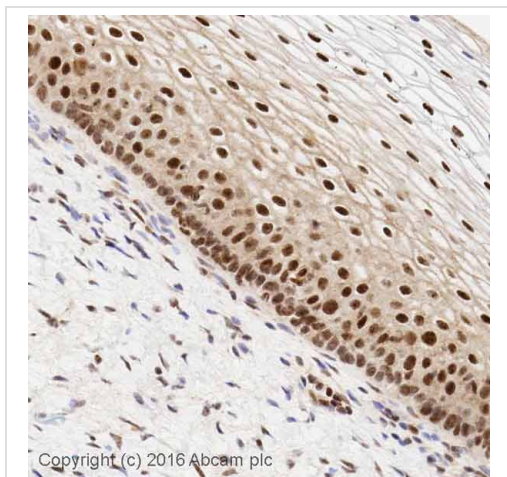
Predicted band size: 54 kDa

Observed band size: 54 kDa

Additional bands at: 105 kDa, 42 kDa, 90 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab58567 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chk1 (phospho S345) antibody (ab58567)

IHC image of ab58567 staining Human Cervical Carcinoma formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab58567, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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