abcam

Product datasheet

Anti-Phospho SQ/TQ ATM/ATR Substrate antibody ab130947

3 References　　1 Image

Overview

Product name	Anti-Phospho SQ/TQ ATM/ATR Substrate antibody
Description	Rabbit polyclonal to Phospho SQ/TQ ATM/ATR Substrate
Host species	Rabbit
Specificity	Ab130947 recognizes proteins phosphorylated on SQ/TQ motifs (ATM/ATR kinase consensus phosphorylation site motif)
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human Phospho SQ/TQ ATM/ATR Substrate aa 2600-2700 (phospho S2609 + T2609) conjugated to keyhole limpet haemocyanin. Database link: **P78527**
Positive control	This antibody gave a positive signal in Western Blot in the following cell line: HeLa untreated and UV treated whole cell
General notes	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. 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

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 ab130947 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
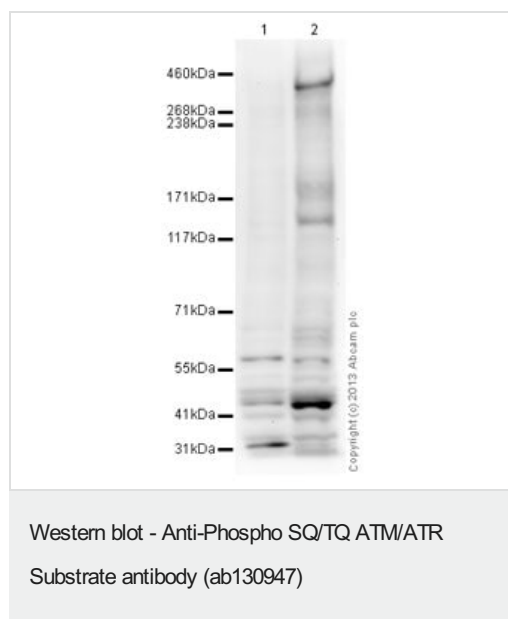
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 450 kDa (predicted molecular weight: 469 kDa). An increase in signal is observed upon UV treatment

Target

Relevance Several protein kinases mediate cellular responses to DNA damage. This includes the serine/threonine kinases ATM (ataxia telangiectasia mutated) and ATR (ATM and Rad3-related). In response to DNA damage ATM and ATR phosphorylate a large range of proteins on Serine (S) or Threonine (T) residues next to a Glutamine (Q) residue, so called SQ or TQ consensus sites.

Images

Western blot - Anti-Phospho SQ/TQ ATM/ATR Substrate antibody (ab130947)

All lanes : Anti-Phospho SQ/TQ ATM/ATR Substrate antibody (ab130947) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Hela Whole Cell Lysate - UV Irradiated

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 469 kDa

Observed band size: 450 kDa

Exposure time: 8 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab130947 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors