

Anti-Rad53 antibody ab104232

★★★★★ [3 Abreviews](#) [59 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Rad53 antibody
製品の詳細	Rabbit polyclonal to Rad53
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: <i>Saccharomyces cerevisiae</i>
免疫原	Synthetic peptide corresponding to <i>Saccharomyces cerevisiae</i> Rad53 aa 800 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab134635)
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<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 scientific support team who will be happy to help.</p>
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab104232の使用に適用されます

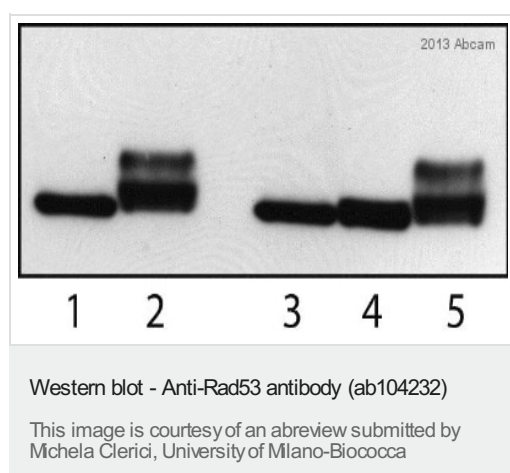
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (3)	1/2000. Detects a band of approximately 92 kDa (predicted molecular weight: 92 kDa). Abcam recommends using milk as the blocking agent (4%)

ターゲット情報

機能	Controls S-phase checkpoint as well as G1 and G2 DNA damage checkpoints. Phosphorylates proteins on serine, threonine, and tyrosine. Prevents entry into anaphase and mitotic exit after DNA damage via regulation of the Polo kinase CDC5. Seems to be involved in the phosphorylation of RPH1.
配列類似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CHEK2 subfamily. Contains 2 FHA domains. Contains 1 protein kinase domain.
ドメイン	FHA domains are phosphothreonine recognition modules, FHA 1 strongly selects for Asp at position +3 relative to phosphothreonine, whereas FHA 2 selects for Ile in this position.
翻訳後修飾	Autophosphorylated.
細胞内局在	Nucleus.

画像



All lanes : Anti-Rad53 antibody (ab104232) at 1/2000 dilution

Lane 1 : *Saccharomyces cerevisiae* whole cell lysate from exponentially growing cells- TCA prep.

Lane 2 : *Saccharomyces cerevisiae* whole cell lysate from exponentially growing cells treated with 20mg/ml phleomycin for 1 hour - TCA prep

Lane 3 : *Saccharomyces cerevisiae* whole cell lysate from exponentially growing cells- TCA prep

Lane 4 : *Saccharomyces cerevisiae* whole cell lysate from exponentially growing cells arrested in G2 phase with nocodazole- TCA prep.

Lane 5 : *Saccharomyces cerevisiae* whole cell lysate from exponentially growing cells arrested in G2 phase with nocodazole and treated with 20mg/ml phleomycin- TCA prep.

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Amersham anti-rabbit IgG conjugated to HRP at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 92 kDa

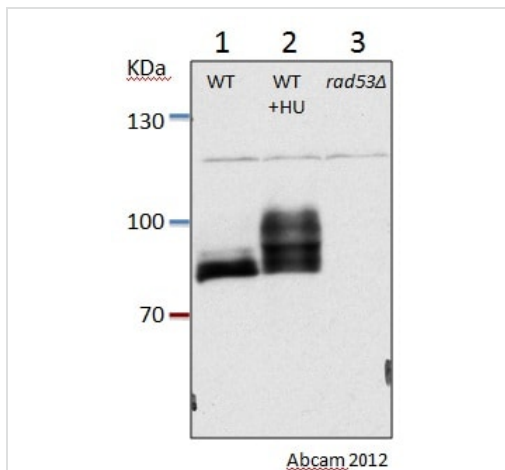
Observed band size: 92 kDa

Additional bands at: >92 kDa (possible post-translational modification)

Exposure time: 2 minutes

Blocking: 4% milk for 1 hour

Phosphorylation of Rad53 induced by phleomycin treatment see PubmedID:152856



Western blot - Anti-Rad53 antibody (ab104232)

This image is courtesy of Ilaria Guerini, Gurdon Institute, United Kingdom

All lanes : Anti-Rad53 antibody (ab104232) at 1/2000 dilution

Lane 1 : TCA preps from exponentially growing WT yeast cells.

Lane 2 : TCA preps from exponentially growing WT yeast cells treated with Hydroxyurea (HU).

Lane 3 : TCA preps from exponentially growing rad53delta yeast cells.

Secondary

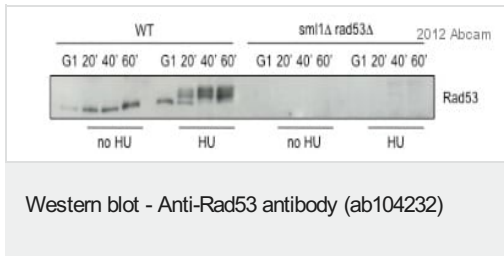
All lanes : 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 92 kDa

Exposure time: 30 seconds



All lanes : Anti-Rad53 antibody (ab104232) at 1/1000 dilution

Lanes 1 & 5 : Alpha-factor arrested WT cells.

Lane 2 : WT cells 20' after release in S-phase.

Lane 3 : WT cells 40' after release in S-phase.

Lane 4 : WT cells 60' after release in S-phase.

Lane 6 : WT cells 20' after release in S-phase in 200mM HU.

Lane 7 : WT cells 40' after release in S-phase in 200mM HU.

Lane 8 : WT cells 60' after release in S-phase in 200mM HU.

Lanes 9 & 13 : Alpha-factor arrested rad53delta cells.

Lane 10 : rad53delta cells 20' after release in S-phase.

Lane 11 : rad53delta cells 40' after release in S-phase.

Lane 12 : rad53delta cells 60' after release in S-phase.

Lane 14 : rad53delta cells 20' after release in S-phase in 200mM HU.

Lane 15 : rad53delta cells 40' after release in S-phase in 200mM HU.

Lane 16 : rad53delta cells 60' after release in S-phase in 200mM HU.

Secondary

All lanes : Donkey Anti-Rabbit IgG H&L (HRP) (**ab16284**) at 1/2000 dilution

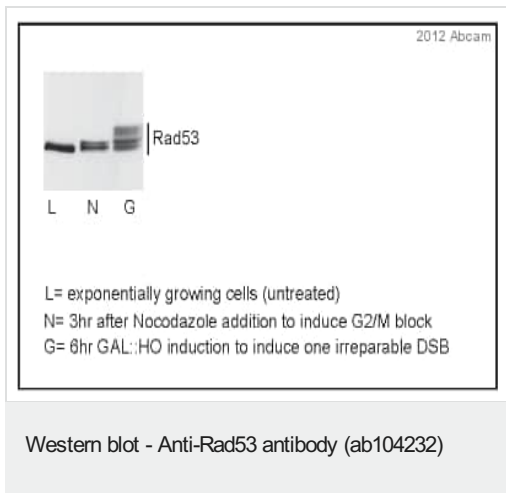
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 92 kDa

Additional bands at: 92 kDa (possible post-translational modification)

Exposure time: 2 minutes



Western blot showing ab104232 detecting Rad53 in both its unphosphorylated and phosphorylated status. ab104232 was used at 1:2000 dilution.

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