


Anti-DNA2 antibody ab96488

★★★★☆ **3 Abreviews** **28 References** **3 图像**

概述

产品名称	Anti-DNA2抗体
描述	兔多克隆抗体to DNA2
宿主	Rabbit
特异性	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.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human DNA2 aa 1000 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab42548)
阳性对照	This antibody gave a positive signal in the following Human Whole Cell lysates; HEK293, HEK293 (Nuclear) and U2OS and FFPE human liver tissue sections.
常规说明	ab96488 is raised using the same immunogen as ab42439 . Batches sold under ab96488 have passed QC testing in Western Blot. In our hands, this product did not work in ICC/IF. For further information please contact our Customer Services team. 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

性能

形式	Liquid
存放说明	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.

存储溶液

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.

纯度

Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab96488 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 125 kDa (predicted molecular weight: 120 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

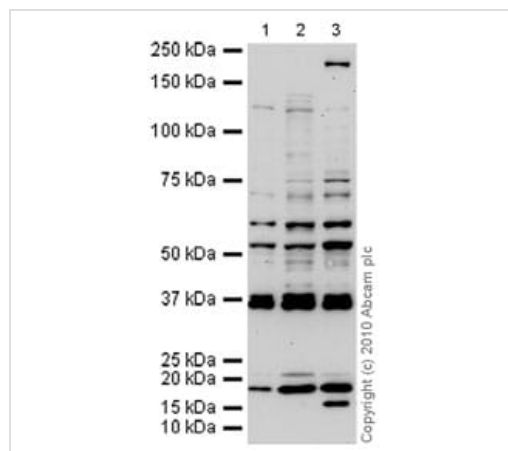
功能

May function in chromosomal DNA replication.

序列相似性

Belongs to the DNA2/NAM7 helicase family.

图片



Western blot - Anti-DNA2 antibody (ab96488)

All lanes : Anti-DNA2 antibody (ab96488) at 1 µg/ml

Lane 1 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 2 : HEK293 (Human embryonic kidney cell line) Nuclear Lysate

Lane 3 : U2OS (Human osteosarcoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Developed using the ECL technique.

Performed under reducing conditions.

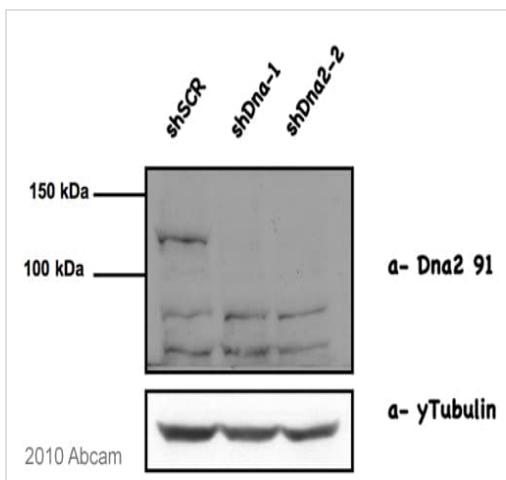
Predicted band size: 120 kDa

Observed band size: 125 kDa

Additional bands at: 16 kDa, 18 kDa, 210 kDa, 37 kDa, 38 kDa, 54 kDa, 60 kDa, 70 kDa, 76 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 10 minutes

This antibody detects multiple bands in addition to the band of interest, reflecting low levels of expression of DNA2. siRNA knockdown experiments have demonstrated that this antibody detects a band at ~120 kDa corresponding to human DNA2 (please see image courtesy of Julien Duxin).



Western blot - Anti-DNA2 antibody (ab96488)

Image courtesy of Julien Duxin and Sheila Stewart

All lanes : Anti-DNA2 antibody (ab96488)

Lane 1 : U2OS cells plus control shRNA

Lane 2 : U2OS cells plus shDNA2-1 shRNA

Lane 3 : U2OS cells plus shDNA2-2 shRNA

Secondary

All lanes : Anti-rabbit at 1/3000 dilution

Developed using the ECL technique.

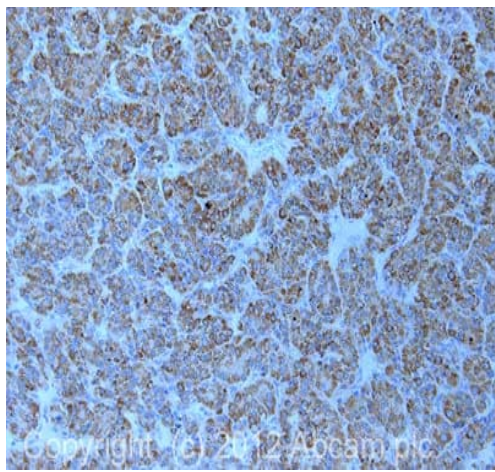
Performed under reducing conditions.

Predicted band size: 120 kDa

Observed band size: 120 kDa

Western blot showing detection of DNA2 by [ab42439](#). A 120 kDa band corresponding to DNA2 was detected in lysates of U2OS cells treated with control shRNA (lane 1) but not in those from knockdown cells treated with two different shRNAs for DNA2 (lanes 2 and 3). Following pre-blocking for 30 mins in 5% milk, PBS-Tween, the membrane was incubated overnight at 4°C with

ab42439 at a dilution of 1/1000 in 5% milk, PBS-Tween. The membrane was then incubated with the secondary antibody at 1/3000 dilution in 5% milk, PBS-Tween for 2 hours at RT, and washed 3 x 10 mins with PBS-Tween prior to ECL detection.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNA2 antibody (ab96488)

IHC image of ab96488 staining in human liver 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 ab96488, 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.

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