


Anti-CD40 antibody ab113701

敲除 验证

3 图像

概述

产品名称	Anti-CD40抗体
描述	兔多克隆抗体to CD40
宿主	Rabbit
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: Macaque monkey, Gorilla 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: U-2 OS and Raji cell lysates; Human spleen and thymus tissue lysates. IHC-FFPE: Human spleen tissue.
常规说明	<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>

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ab113701于以下的经测试应用**

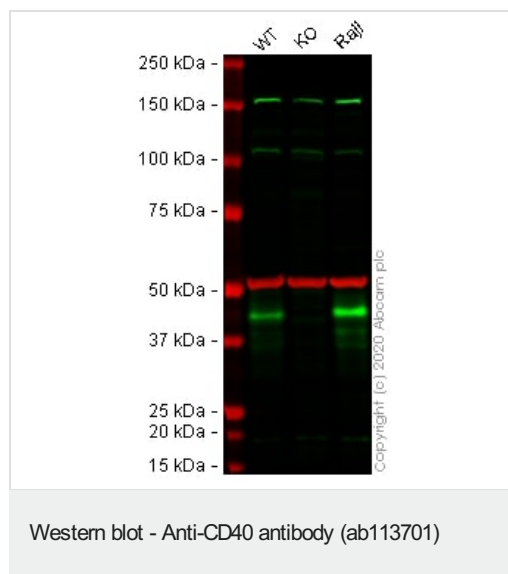
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 43 kDa (predicted molecular weight: 31 kDa).
IHC-P		Use a concentration of 5 µg/ml.

靶标

功能	Receptor for TNFSF5/CD40LG.
组织特异性	B-cells and in primary carcinomas.
疾病相关	Defects in CD40 are the cause of hyper-IgM immunodeficiency syndrome type 3 (HIGM3) [MIM:606843]; also known as hyper-IgM syndrome 3. HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation.
序列相似性	Contains 4 TNFR-Cys repeats.
细胞定位	Secreted and Cell membrane.

图片



All lanes : Anti-CD40 antibody (ab113701) at 1 μ g/ml

Lane 1 : Wild-type U-2 OS cell lysate

Lane 2 : CD40 knockout U-2 OS cell lysate

Lane 3 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 40 μ g per lane.

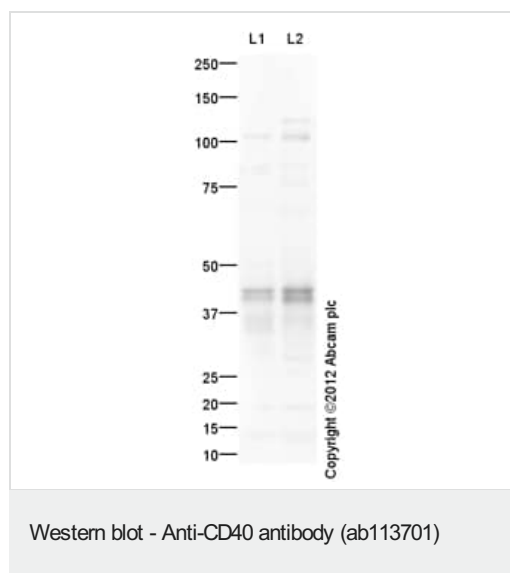
Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 45 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab113701 observed at 45 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab113701 was shown to react with CD40 in wild-type U-2 OS cells in Western blot. Loss of signal was observed when CD40 knockout cell line **ab262486** (knockout cell lysate **ab263923**) was used. Wild-type and CD40 knockout U-2 OS cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween[®]) before incubation with ab113701 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-CD40 antibody (ab113701) at 1 µg/ml

Lane 1 : Human spleen tissue lysate - total protein (**ab29699**)

Lane 2 : Human thymus tissue lysate - total protein (**ab30146**)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 31 kDa

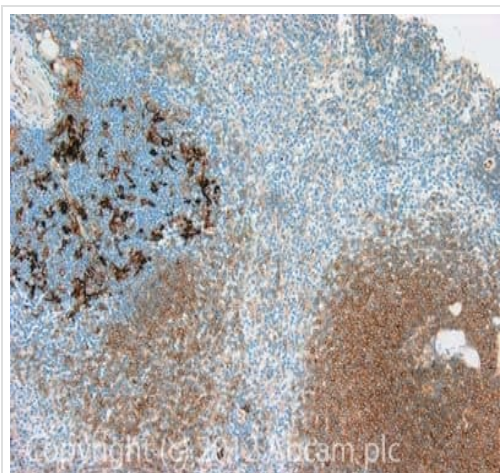
Observed band size: 43 kDa

Additional bands at: 105 kDa, 41 kDa (possible cleavage fragment). We are unsure as to the identity of these extra bands.

Exposure time: 10 minutes

CD40 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted. The predicted molecular weight of CD40 is

31 kDa (SwissProt), however we expect to observe a banding pattern around 43 kDa. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD40 antibody (ab113701)

IHC image of CD40 staining in Human normal spleen 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 ab113701, 5µg/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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