abcam

Product datasheet

Anti-JNK1 antibody [EPR140(2)] ab110724

敲除验证 重组 RabMAb

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概述

产品名称	Anti-JNK1抗体[EPR140(2)]
描述	兔单克隆抗体[EPR140(2)] to JNK1
宿主	Rabbit
经测试应用	**适用于:** WB
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, HEK-293, K562, C6, RAW 264.7 and MCF7 cell lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR140(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab110724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)	1/1000 - 1/10000. Predicted molecular weight: 48 kDa.

靶标

功能

Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).
JNK1 isoforms display different binding patterns: beta-1 preferentially binds to c-Jun, whereas alpha-1, alpha-2, and beta-2 have a similar low level of binding to both c-Jun or ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms.

序列相似性

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.
Contains 1 protein kinase domain.

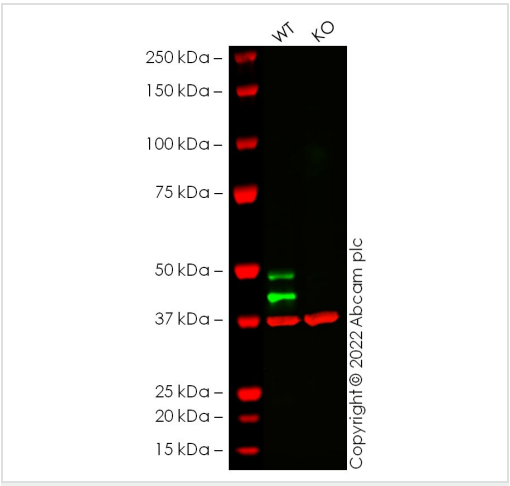
结构域

The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

翻译后修饰

Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme.

图片



Western blot - Anti-JNK1 antibody [EPR140(2)] (ab110724)

All lanes : Anti-JNK1 antibody [EPR140(2)] (ab110724) at 1/1000 dilution

Lane 1 : Wild-type U-2 OS cell lysate
Lane 2 : MAPK8 knockout U-2 OS cell lysate

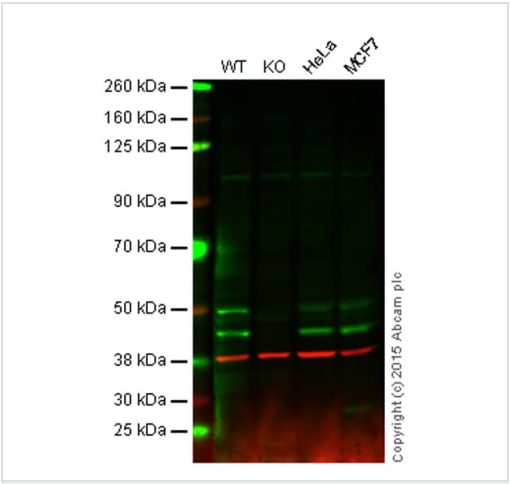
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 48 kDa
Observed band size: 42-48 kDa

False colour image of Western blot: Anti-JNK1 antibody

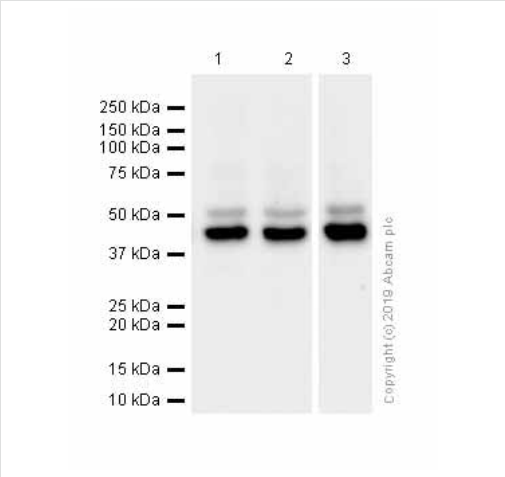
[EPR140(2)] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab110724 was shown to bind specifically to JNK1. A band was observed at 42/48 kDa in wild-type U-2 OS cell lysates with no signal observed at this size in mapk8 knockout cell line **ab277181** (knockout cell lysate **ab277223**). To generate this image, wild-type and mapk8 knockout U-2 OS cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-JNK1 antibody [EPR140(2)] (ab110724)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: JNK1 knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: MCF7 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab110724 observed at 46 and 54 kDa. Red - loading control, **ab8226**, observed at 42 kDa.

ab110724 (unpurified) was shown to specifically react with JNK1 when JNK1 knockout samples were used. Wild-type and ProteinX knockout samples were subjected to SDS-PAGE. ab110724 and **ab8226** (loading control to beta actin) were both diluted 1/1000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-JNK1 antibody [EPR140(2)] (ab110724)

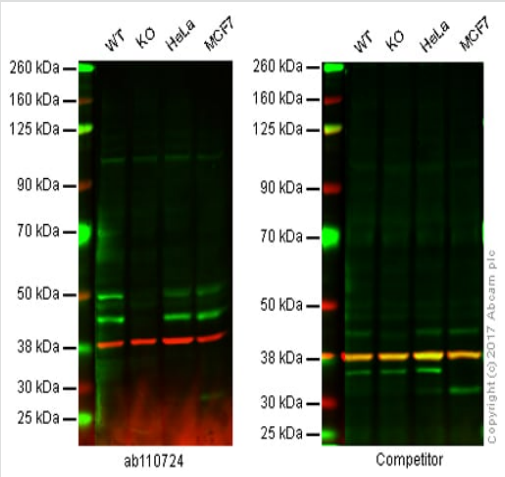
All lanes : Anti-JNK1 antibody [EPR140(2)] (ab110724) at 1/2000 dilution

Lane 1 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate
Lane 2 : C6 (Rat glial tumor cell line) whole cell lysate
Lane 3 : RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 48 kDa
Observed band size: 46,54 kDa

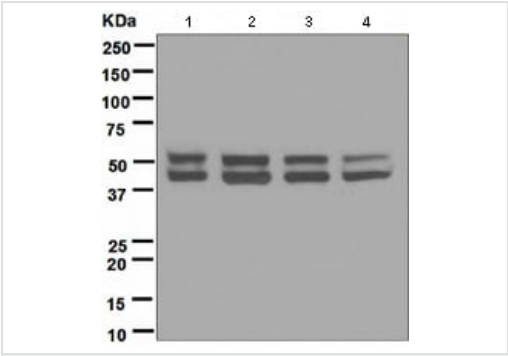


Western blot - Anti-JNK1 antibody [EPR140(2)] (ab110724)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: JNK1 knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: MCF7 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green).

Green - target observed at 46 and 54 kDa. Red - loading control, **ab8226**, observed at 42 kDa.

This western blot image is a comparison between ab110724 and a competitor's top cited mouse monoclonal antibody.



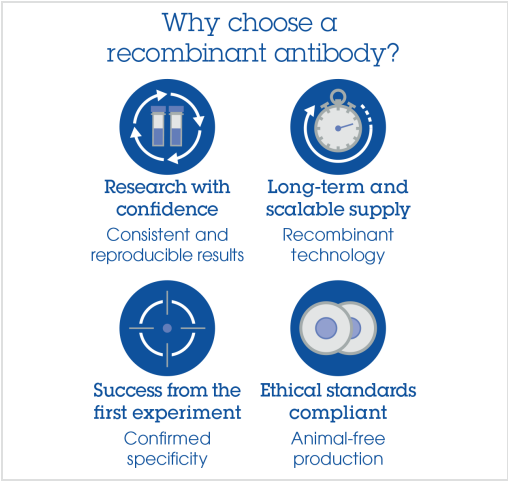
Western blot - Anti-JNK1 antibody [EPR140(2)] (ab110724)

All lanes : Anti-JNK1 antibody [EPR140(2)] (ab110724) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate
Lane 2 : 293T cell lysate
Lane 3 : K562 cell lysate
Lane 4 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 48 kDa



Anti-JNK1 antibody [EPR140(2)] (ab110724)

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