abcam

Product datasheet

# Anti-JNK1 antibody [EPR140(2)] - BSA and Azide free ab247935

KO 評価済 リコンビナント RabMAb

画像数 6

## 製品の概要

| | |
|---|---|
| **製品名** | Anti-JNK1 antibody [EPR140(2)] - BSA and Azide free |
| **製品の詳細** | Rabbit monoclonal [EPR140(2)] to JNK1 - BSA and Azide free |
| **由来種** | Rabbit |
| **アプリケーション** | **適用あり:** WB |
| **種交差性** | **交差種:** Mouse, Rat, Human |
| **免疫原** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **特記事項** | ab247935 is the carrier-free version of **ab110724**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.<br><br>Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.<br><br>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## 製品の特性

| | |
|---|---|
| **製品の状態** | Liquid |
| **保存方法** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **バッファー** | pH: 7.2<br>Constituent: PBS |
| **キャリア・フリー** | はい |
| **精製度** | Protein A purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | EPR140(2) |
| **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ab247935の使用に適用されます

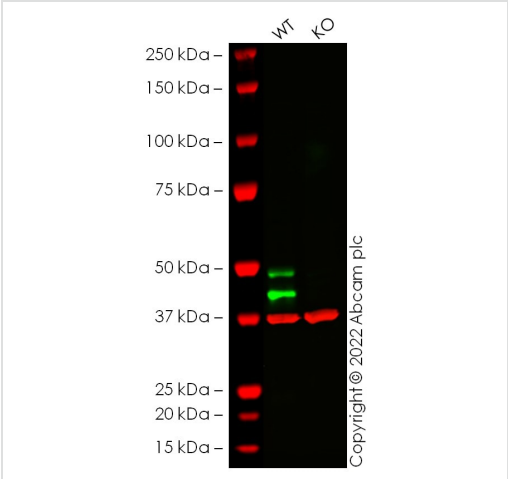
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 48 kDa. |

## ターゲット情報

| | |
|---|---|
| **機能** | 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).<br>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. |
| **配列類似性** | Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.<br>Contains 1 protein kinase domain. |
| **ドメイン** | The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases. |
| **翻訳後修飾** | Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme. |

## 画像




Western blot - Anti-JNK1 antibody [EPR140(2)] - BSA and Azide free (ab247935)

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

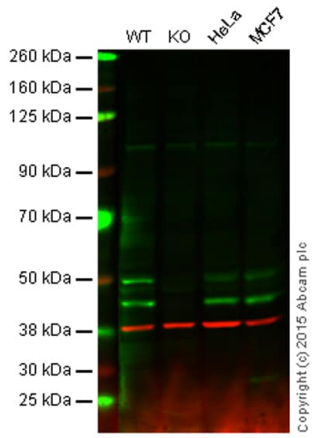
**Lane 1 :** Wild-type U-2 OS cell lysate
**Lane 2 :** MAPK8 knockout U-2 OS cell lysate

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)] - BSA and Azide free (ab247935)

This data was developed using **ab110724**, the same antibody clone in a different buffer formulation.

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

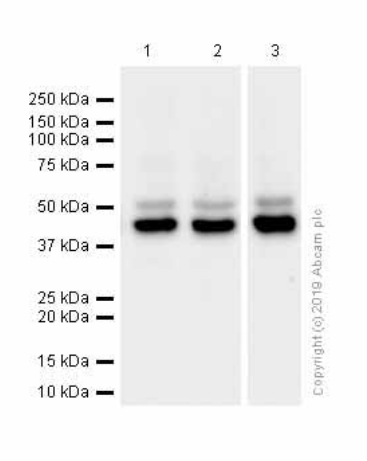
**Lane 2:** JNK1 knockout HAP1 cell lysate (20 µg)

**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)] - BSA and Azide free (ab247935)

**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

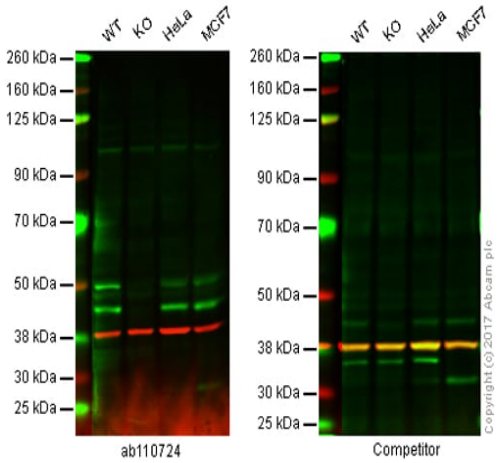
Lysates/proteins at 20 µg per lane.

**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

This data was developed using **ab110724**, the same antibody clone in a different buffer formulation.




Western blot - Anti-JNK1 antibody [EPR140(2)] - BSA and Azide free (ab247935)

This data was developed using **ab110724**, the same antibody clone in a different buffer formulation.

**Lane 1** Wild-type HAP1 cell lysate (20 µg)

**Lane 2** JNK1 knockout HAP1 cell lysate (20 µg)

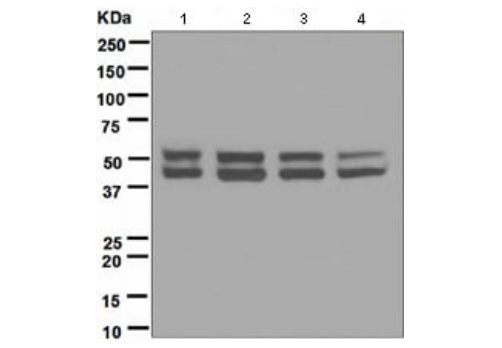
**Lane 3** HeLa cell lysate (20 µg)

**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)] - BSA and Azide free (ab247935)

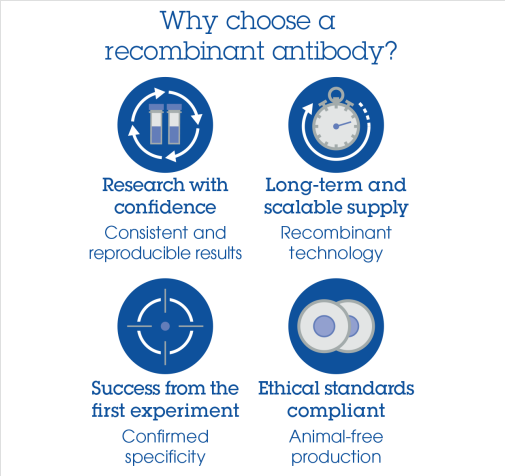
**All lanes :** Anti-JNK1 antibody [EPR140(2)] (**ab110724**) at 1/1000 dilution (unpurified)

**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

This data was developed using **ab110724**, the same antibody clone in a different buffer formulation.




Anti-JNK1 antibody [EPR140(2)] - BSA and Azide free (ab247935)

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