

# Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] ab208035

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **65 References** 画像数 11

### 製品の概要

製品名	Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95]
製品の詳細	Rabbit monoclonal [EPR18841-95] to JNK1 + JNK2 + JNK3
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IP, Flow Cyt (Intra)
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human JNK1, JNK2 and JNK3 full length recombinant proteins; Human fetal liver, fetal heart and fetal kidney lysates; Jurkat, HeLa, K562, MCF7, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Mouse brain, heart, kidney and spleen lysates; Rat brain, kidney and spleen lysates. ICC/IF: HeLa and NIH/3T3 cell lines. Flow Cyt (intra): Jurkat and HeLa cell lines. IP: HeLa whole cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名                   EPR18841-95  
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ab208035の使用に適用され  
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	★★★★★ (1)	1/2000. Detects a band of approximately 46-54 kDa (predicted molecular weight: 48, 53 kDa).
ICC/IF		1/1000.
IP		1/40.
Flow Cyt (Intra)		1/100.

## ターゲット情報

**機能**                                   Serine/threonine-protein kinase involved in various processes such as cell proliferation, differentiation, migration, transformation and programmed cell death. Extracellular stimuli such as proinflammatory cytokines or physical stress stimulate the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade, two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate MAPK8/JNK1. In turn, MAPK8/JNK1 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. Phosphorylates the replication licensing factor CDT1, inhibiting the interaction between CDT1 and the histone H4 acetylase HBO1 to replication origins. Loss of this interaction abrogates the acetylation required for replication initiation. Promotes stressed cell apoptosis by phosphorylating key regulatory factors including p53/TP53 and Yes-associates protein YAP1. In T-cells, MAPK8 and MAPK9 are required for polarized differentiation of T-helper cells into Th1 cells. Contributes to the survival of erythroid cells by phosphorylating the antagonist of cell death BAD upon EPO stimulation. Mediates starvation-induced BCL2 phosphorylation, BCL2 dissociation from BECN1, and thus activation of autophagy. Phosphorylates STMN2 and hence regulates microtubule dynamics, controlling neurite elongation in cortical neurons. In the developing brain, through its cytoplasmic activity on STMN2, negatively regulates the rate of exit from multipolar stage and of radial migration from the ventricular zone. Phosphorylates several other substrates including heat shock factor protein 4 (HSF4), the deacetylase SIRT1, ELK1, or the E3 ligase ITCH. 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.  
Contains 1 protein kinase domain.

**ドメイン**                               The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the

MAP kinases.

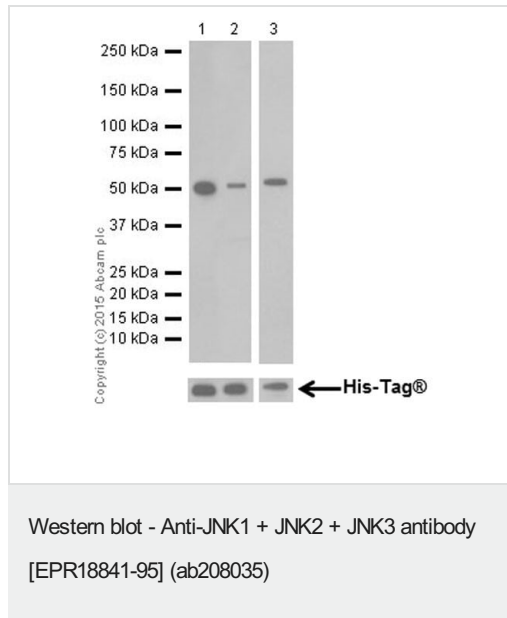
## 翻訳後修飾

Dually phosphorylated on Thr-183 and Tyr-185 by MAP2K7 and MAP2K4, which activates the enzyme. Phosphorylated by TAOK2.

## 細胞内局在

Cytoplasm. Nucleus.

## 画像



**All lanes :** Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035) at 1/2000 dilution

**Lane 1 :** Human JNK1 full length recombinant protein

**Lane 2 :** Human JNK2 full length recombinant protein

**Lane 3 :** Human JNK3 full length recombinant protein

Lysates/proteins at 0.01 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

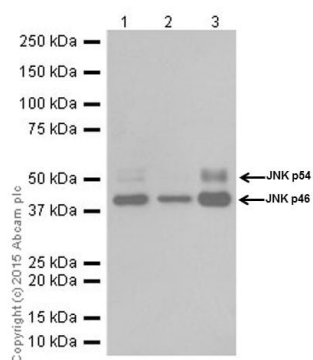
**Predicted band size:** 48, 53 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1 & 2: 5 seconds; Lane 3: 15 seconds.

Human JNK1 full length recombinant protein contains aa1-427 with a His-Tag®. Human JNK2 full length recombinant protein contains aa1-424 with a His-Tag®. Human JNK3 full length recombinant protein contains aa1-464 with a His-Tag®.

All three recombinant human full length proteins were made in-house.



Western blot - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

**All lanes :** Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035) at 1/2000 dilution

**Lane 1 :** Human fetal liver lysate

**Lane 2 :** Human fetal heart lysate

**Lane 3 :** Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

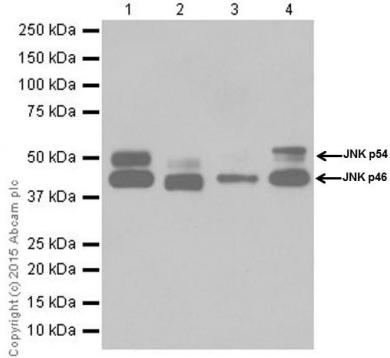
**All lanes :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 48, 53 kDa

**Observed band size:** 46-54 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

**All lanes :** Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035) at 1/2000 dilution

**Lane 1 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

**Lane 2 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 3 :** K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate

**Lane 4 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

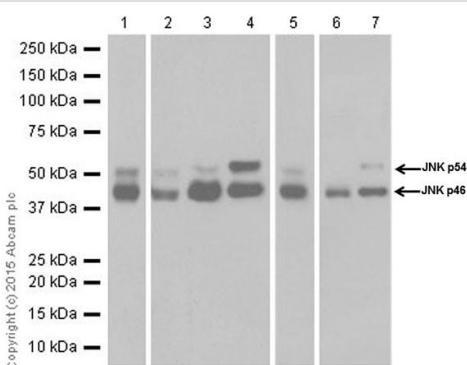
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 48, 53 kDa

**Observed band size:** 46-54 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

**All lanes :** Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035) at 1/2000 dilution

**Lane 1 :** Mouse brain lysate

**Lane 2 :** Mouse heart lysate

**Lane 3 :** Mouse kidney lysate

**Lane 4 :** Mouse spleen lysate

**Lane 5 :** Rat brain lysate

**Lane 6 :** Rat kidney lysate

**Lane 7 :** Rat spleen lysate

Lysates/proteins at 10 µg per lane.

### Secondary

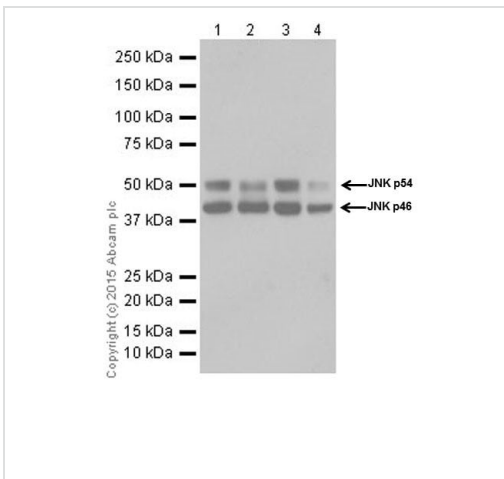
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 48, 53 kDa

**Observed band size:** 46-54 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 4 seconds; Lane 2,3 & 4: 30 seconds; Lane 5: 15 seconds; Lane 6 & 7: 3 minutes.



Western blot - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

**All lanes :** Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035) at 1/2000 dilution

**Lane 1 :** C6 (Rat glial tumor cell line) whole cell lysate

**Lane 2 :** RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 3 :** PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 4 :** NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

#### **Secondary**

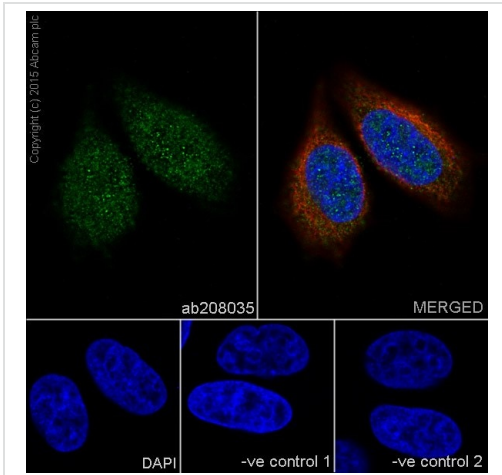
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 48, 53 kDa

**Observed band size:** 46-54 kDa

**Exposure time:** 8 seconds

Blocking and Diluting buffer and concentration: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cell line labeling JNK1+JNK2+JNK3 with ab208035 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasm and weak nuclear staining on HeLa cell line.

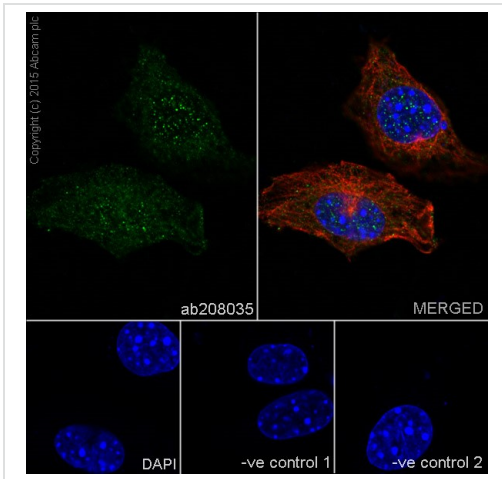
The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ([ab150120](#)) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab208035 at 1/1000 dilution followed by [ab150120](#) at 1/1000 dilution.

-ve control 2: [ab7291](#) at 1/1000 dilution followed by [ab150077](#) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cell line labeling JNK1+JNK2+JNK3 with ab208035 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasm and nuclear staining on NIH/3T3 cell line.

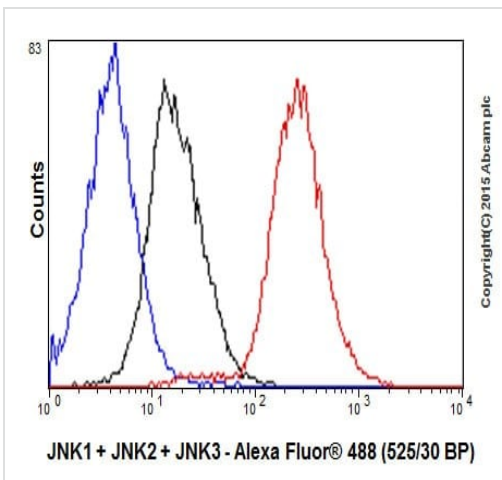
The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab208035 at 1/1000 dilution followed by **ab150120** at 1/1000 dilution.

-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1000 dilution.

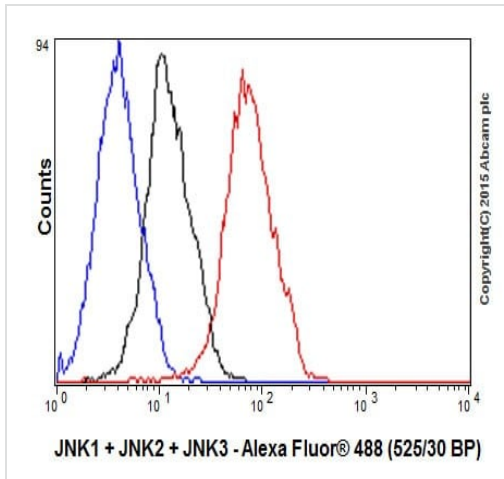


Flow Cytometry (Intracellular) - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cell line from peripheral blood) cell line labeling JNK1+JNK2+JNK3 with ab208035 at 1/100 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue).

Goat anti-Rabbit IgG (Alexa Fluor® 488) at 1/500 dilution was used as the secondary antibody.

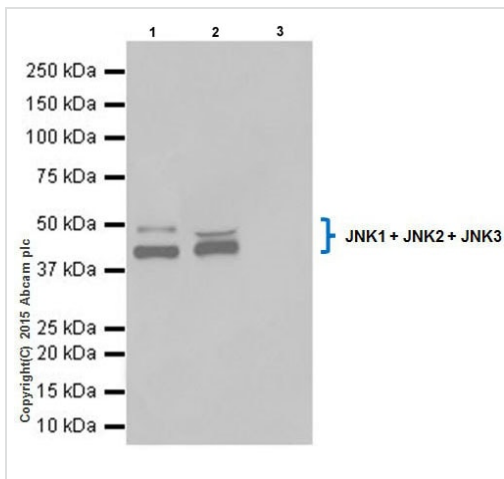




Flow Cytometry (Intracellular) - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cell line labeling JNK1+JNK2+JNK3 with ab208035 at 1/100 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue).

Goat anti-Rabbit IgG (Alexa Fluor® 488) at 1/500 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95] (ab208035)

JNK1+JNK2+JNK3 was immunoprecipitated from 1mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab208035 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab208035 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HeLa whole cell lysate, 10ug (Input).

Lane 2: ab208035 IP in HeLa whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of ab208035 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDN/TBST.

Exposure time: 10 seconds.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-JNK1 + JNK2 + JNK3 antibody [EPR18841-95]  
(ab208035)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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