abcam

Product datasheet

Anti-JNK2 antibody [EP1595Y] ab76125

敲除验证 重组 RabMAb

★★★★★ 1 Abreviews 39 References 8 图像

概述

产品名称	Anti-JNK2抗体[EP1595Y]
描述	兔单克隆抗体[EP1595Y] to JNK2
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, IHC-P, ELISA
种属反应性	**与反应:** Human, Recombinant fragment **预测可用于:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HEK293T, MCF7, HAP1 and HeLa cell lysates. IHC-P: Human breast carcinoma tissue. IP: HeLa cell lysate. Flow Cyt (intra): HeLa cells.
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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1595Y

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab76125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
Flow Cyt (Intra)		1/40. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 48 kDa.
IP		Use a concentration of 5 µg/ml.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration.

靶标

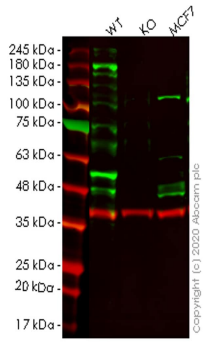
功能 Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells.
JNK2 isoforms display different binding patterns: alpha-1 and alpha-2 preferentially bind to c-Jun, whereas beta-1 and beta-2 bind to ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms. JUNB is not a substrate for JNK2 alpha-2, and JUND binds only weakly to it.

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. Autophosphorylated in vitro.

图片



Western blot - Anti-JNK2 antibody [EP1595Y] (ab76125)

All lanes : Anti-JNK2 antibody [EP1595Y] (ab76125) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : MAPK9 knockout HEK293T cell lysate
Lane 3 : MCF7 cell lysate

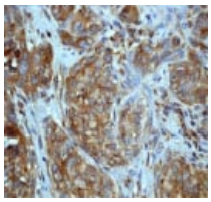
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 48 kDa
Observed band size: 48 kDa

Lanes 1-3: Merged signal (red and green). Green - ab76125 observed at 48 kDa. Red - loading control **ab8245** observed at 36 kDa.

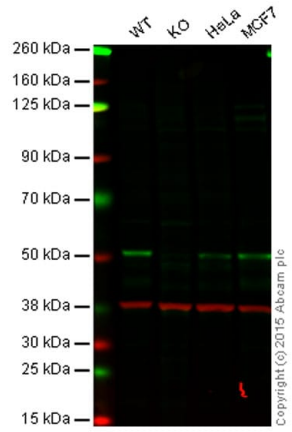
ab76125 Anti-JNK2 antibody [EP1595Y] was shown to specifically react with JNK2 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266355** (knockout cell lysate **ab257527**) was used. Wild-type and JNK2 knockout samples were subjected to SDS-PAGE. ab76125 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JNK2 antibody [EP1595Y] (ab76125)

ab76125 at 1/100 dilution staining JNK2 in human breast carcinoma by Immunohistochemistry, Paraffin-embedded tissue.

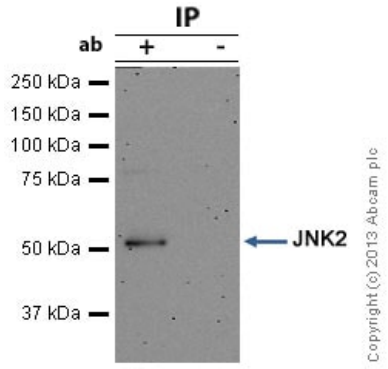
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-JNK2 antibody [EP1595Y] (ab76125)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: JNK2 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 - ab76125 observed at 54 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab76125 was shown to specifically react with JNK2 when JNK2 knockout samples were used. Wild-type and JNK2 knockout samples were subjected to SDS-PAGE. ab76125 and **ab8245** (loading control to GAPDH) were diluted 1/2500 and 1/2000 respectively 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 1/10000 dilution for 1 h at room temperature before imaging.



Immunoprecipitation - Anti-JNK2 antibody [EP1595Y] (ab76125)

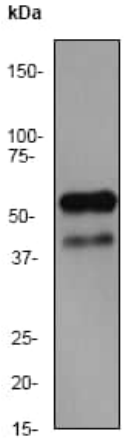
JNK2 was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Rabbit monoclonal to JNK2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab76125.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (**ab99697**).

Band: 48kDa; JNK2



Western blot - Anti-JNK2 antibody [EP1595Y] (ab76125)

Anti-JNK2 antibody [EP1595Y] (ab76125) at 1/50000 dilution + HeLa cell lysate at 10 µg

Secondary

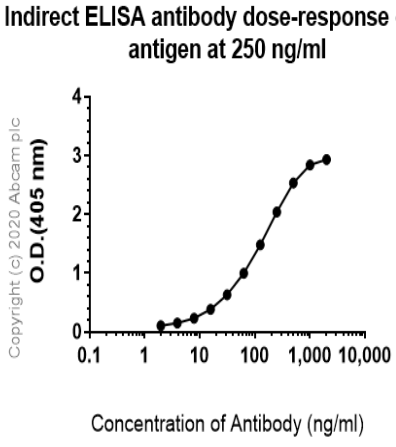
goat anti-rabbit-HRP at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 48 kDa
Observed band size: 54 kDa
Additional bands at: 46 kDa (possible isoform)

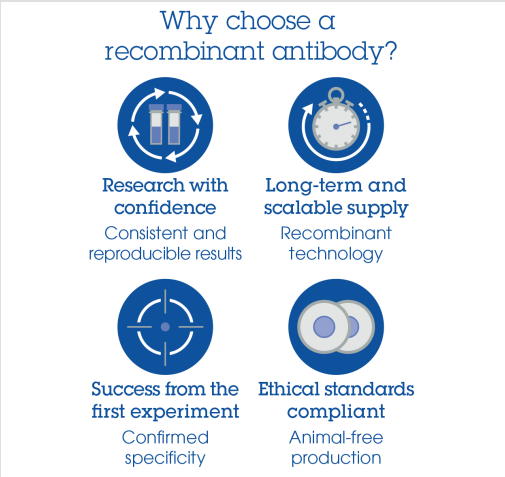
Flow Cytometry (Intracellular) - Anti-JNK2 antibody [EP1595Y] (ab76125)

Overlay histogram showing HeLa cells stained with ab76125 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76125, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



ELISA - Anti-JNK2 antibody [EP1595Y] (ab76125)

ELISA analysis of Human JNK2 recombinant protein at 250 ng/mL with ab76125. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Anti-JNK2 antibody [EP1595Y] (ab76125)

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