abcam

Product datasheet

Anti-JNK1 + JNK2 + JNK3 (phospho T183 + Y185) antibody ab59196

2 References 1 图像

概述

产品名称	Anti-JNK1 + JNK2 + JNK3 (phospho T183 + Y185)**抗体**
描述	**兔多克隆抗体**to JNK1 + JNK2 + JNK3 (phospho T183 + Y185)
宿主	Rabbit
特异性	ab59196 detects endogenous levels of JNK1/2/3 only when phosphorylated at threonine183/tyrosine 185.
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human **预测可用于:** Rat
免疫原	Synthetic peptide corresponding to Human JNK1 + JNK2 + JNK3 aa 150-250 (phospho T183 + Y185). Synthetic phosphopeptide (Human) from around the phosphorylation site of threonine 183/tyrosine 185 (MMTPPYPVV) Swiss-Prot #: P45983/P45984/P53779
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg+2 and Ca+2
纯度	Immunogen affinity purified

纯化说明	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab59196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。

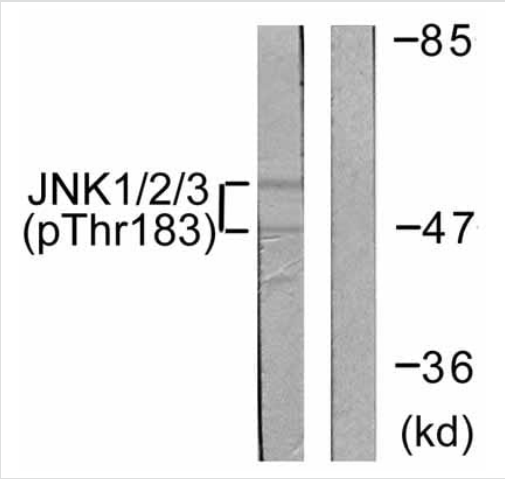
应用	Ab评论	说明
WB		1/500 - 1/1000. Detects a band of approximately 40, 60 kDa (predicted molecular weight: 48 kDa).

靶标

功能	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.
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 by MAP2K7 and MAP2K4, which activates the enzyme. Phosphorylated by TAOK2.

细胞定位	Cytoplasm. Nucleus.

图片



Western blot - Anti-JNK1 + JNK2 + JNK3 (phospho T183 + Y185) antibody (ab59196)

All lanes : Anti-JNK1 + JNK2 + JNK3 (phospho T183 + Y185) antibody (ab59196) at 1/500 dilution

Lane 1 : 293 cell extract treated with UV (5 mins)
Lane 2 : 293 cell extract treated with UV (5 mins) with immunising phosphopeptide

Predicted band size: 48 kDa
Observed band size: 40,60 kDa

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