

Recombinant Human c-Fos protein ab56280

2 图像

描述

产品名称	重组人c-Fos蛋白
纯度	> 90 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab56280** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Functional Studies
	SDS-PAGE
	Western blot
形式	Liquid

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
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常规信息

功能	Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, FOS and JUN/AP-1 basic regions each seems to interact
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with symmetrical DNA half sites. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling. Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation.

序列相似性

Belongs to the bZIP family. Fos subfamily.

Contains 1 bZIP domain.

翻译后修饰

Phosphorylated in the C-terminal upon stimulation by nerve growth factor (NGF) and epidermal growth factor (EGF). Phosphorylated, in vitro, by MAPK and RSK1. Phosphorylation on both Ser-362 and Ser-374 by MAPK1/2 and RSK1/2 leads to protein stabilization with phosphorylation on Ser-374 being the major site for protein stabilization on NGF stimulation. Phosphorylation on Ser-362 and Ser-374 primes further phosphorylations on Thr-325 and Thr-331 through promoting docking of MAPK to the DEF domain. Phosphorylation on Thr-232, induced by HA-RAS, activates the transcriptional activity and antagonizes sumoylation. Phosphorylation on Ser-362 by RSK2 in osteoblasts contributes to osteoblast transformation.

Constitutively sumoylated by SUMO1, SUMO2 and SUMO3. Desumoylated by SENP2.

Sumoylation requires heterodimerization with JUN and is enhanced by mitogen stimulation.

Sumoylation inhibits the AP-1 transcriptional activity and is, itself, inhibited by Ras-activated phosphorylation on Thr-232.

细胞定位

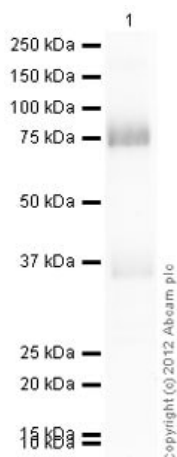
Nucleus.

图片



SDS-PAGE - Recombinant Human c-Fos protein (ab56280)

SDS-PAGE analysis of ab56280 with molecular weight markers. Approximate molecular weight 78kDa due to presence of a Tag.



Western blot - Recombinant Human c-Fos protein (ab56280)

Anti-c-Fos antibody - ChIP Grade ([ab7963](#)) at 1 µg/ml + Recombinant Human c-Fos protein (ab56280) at 0.1 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Additional bands at: 75 kDa (possible tagged protein)

Exposure time: 20 seconds

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

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