

### Anti-c-Fos antibody - BSA free ab190289

★★★★★ [8 Abreviews](#) [140 References](#) [画像数 6](#)

#### 製品の概要

製品名	Anti-c-Fos antibody - BSA free
製品の詳細	Rabbit polyclonal to c-Fos - BSA free
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IHC-FrFI, ICC, WB, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant full length protein corresponding to Human c-Fos aa 1 to the C-terminus. expressed in and purified from E. coli. Database link: <a href="#">P01100</a>

 [Run BLAST with](#)

 [Run BLAST with](#)

**ポジティブ・コントロール** WB: HeLa and rat cortical membrane cells.

**特記事項** 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

#### 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	Preservative: 0.033% Sodium azide Constituents: 49.9% PBS, 49.9% Glycerol (glycerin, glycerine)
精製度	Protein A purified
ポリ/モノ	ポリクローナル
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ab190289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
IHC-FrFI		Use at an assay dependent concentration.
ICC		1/5000.
WB	★★★★★ (3)	1/2000. Detects a band of approximately 50-65 kDa (predicted molecular weight: 41 kDa).
IHC-P		Use at an assay dependent concentration.

## ターゲット情報

### 機能

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 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.

### 配列類似性

Belongs to the bZIP family. Fos subfamily.  
Contains 1 bZIP domain.

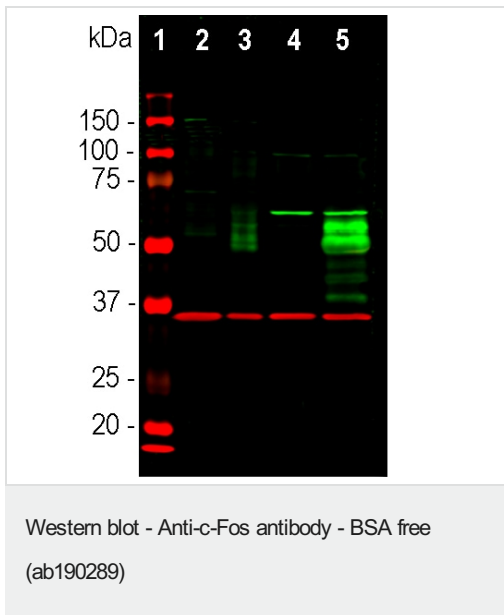
### 翻訳後修飾

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.

### 細胞内局在

Nucleus.

## 画像



**All lanes :** Anti-c-Fos antibody - BSA free (ab190289) at 1/2000 dilution

**Lane 1 :** Protein standard

**Lane 2 :** HeLa cells grown in FBS free media

**Lane 3 :** HeLa cells stimulated with 20% FBS for 2 hours after being in FBS free media for 36 hours

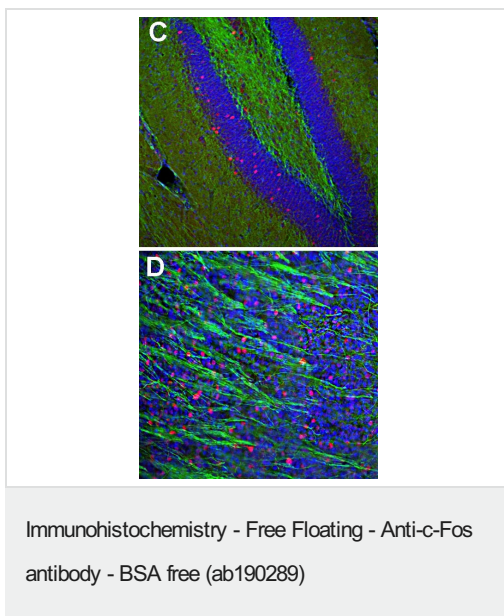
**Lane 4 :** Rat cortical neurons

**Lane 5 :** Rat cortical neurons treated with membrane depolarization buffer for 5 hours

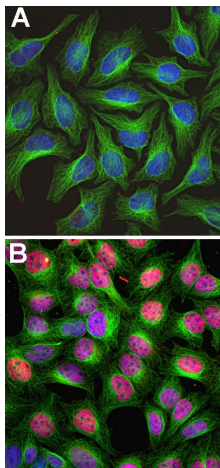
**Predicted band size:** 41 kDa

Mouse Monoclonal Antibody to GAPDH, dilution 1/5000, was used as a loading control (red).

Multiple bands at 50-65 kDa in stimulated or treated cell lysates, correspond to different isoforms of the c-FOS protein.

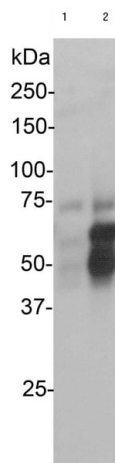


Immunohistochemistry - Free Floating analysis of mouse hippocampus (C) or olfactory bulb sections (D) labeling c-Fos with ab190289 at 1/20,000 (red) and mouse mAb to NF-L at 1/5,000 (green). The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45μM, and free-floating sections were stained with above antibodies. The c-FOS antibody stains only nuclei of spontaneously active neurons. NF-L is expressed in axons of neuronal cells.



Immunocytochemistry analysis of HeLa cells labeling c-Fos with ab190289 at 1/5000 dilution (red) and mouse mAb to tubulin at 1/10,000 dilution (green). The blue is DAPI staining of nuclear DNA. HeLa cells were kept in fetal bovine serum (FBS) – free media for 36 hours. Then the cells were treated with PBS (A), as a control, or stimulated with 20% FBS (B) for 30 min. c-FOS antibody labels only the nuclei of stimulated cells.

Immunocytochemistry - Anti-c-Fos antibody - BSA free (ab190289)



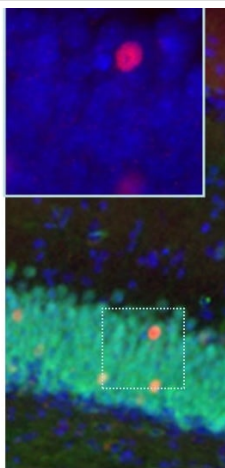
**All lanes :** Anti-c-Fos antibody - BSA free (ab190289) at 1/2000 dilution

**Lane 1 :** HeLa cell lysate from cells serum-starved for 36 hours

**Lane 2 :** HeLa cell lysate from cells serum-starved for 36 hours then stimulated with 20% fetal bovine serum for 2 hours

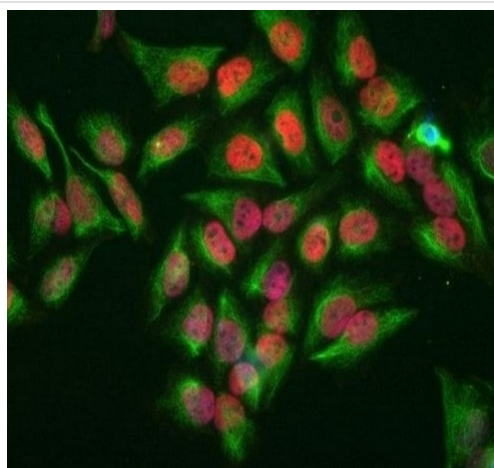
**Predicted band size:** 41 kDa

Western blot - Anti-c-Fos antibody - BSA free (ab190289)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-c-Fos antibody - BSA free (ab190289)

Immunohistochemistry analysis of mouse brain sections across hippocampus labeling c-Fos with ab190289 at 1/2000 dilution (red). Cells were counterstained with anti Fox3/NeuN antibody (green) and DAPI (blue). Neurons positive for c-Fos and Fox3/NeuN appear to be yellow. Inset shows an enlarged image of c-Fos staining.



Immunocytochemistry - Anti-c-Fos antibody - BSA free (ab190289)

Immunofluorescent analysis of HeLa cells (serum-starved, 36 hours followed by 20% FBS treatment for 2 hours) labeling c-Fos with ab190289 at 1/2000 dilution (red). Cells were counterstained with chicken polyclonal antibody against vimentin (green) and DAPI (blue).

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