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# c-Fos Polyclonal antibody

Catalog Number:26192-1-AP Featured Product 35 Publications

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## Basic Information

Catalog Number:
26192-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24340

GenBank Accession Number:
BC004490

GeneID (NCBI):
2353

UNIPROT ID:
P01100

Full Name:
FOS

Calculated MW:
41 kDa

Observed MW:
65 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:50-1:500

## Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, canine

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : RAW 264.7 cells,

IHC : mouse brain tissue, rat brain tissue

## Background Information

c-Fos, also named as FOS and G0/G1 switch regulatory protein 7, is a 380 amino acid protein, which contains 1 bZIP (basic-leucine zipper) domain and belongs to the bZIP family. c-Fos is expressed at very low levels in quiescent cells. When cells are stimulated to reenter growth, c-Fos undergo 2 waves of expression, the first one peaks 7.5 minutes following FBS induction. At this stage, the c-Fos protein is localized endoplasmic reticulum. The second wave of expression occurs at about 20 minutes after induction and peaks at 1 hour. At this stage, the c-FOS protein becomes nuclear. c-Fos is a very short-lived intracellular protein, which is very easy to degrade. The calculated molecular weight of c-Fos is 40 kDa, but Phosphorylated c-Fos protein is about 60-65 kDa. It is involved in important cellular events, including cell proliferation, differentiation and survival; genes associated with hypoxia; and angiogenesis; which makes its dysregulation an important factor for cancer development. It can also induce a loss of cell polarity and epithelial-mesenchymal transition, leading to invasive and metastatic growth in mammary epithelial cells. Expression of c-Fos is an indirect marker of neuronal activity because c-Fos is often expressed when neurons fire action potentials. Upregulation of c-Fos mRNA in a neuron indicates recent activity.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Kun Lu | 29285195 | Oncol Lett | IF |
| Disi Bai | 30542609 | Toxicol Res (Camb) | WB |
| Yu-Zhe Li | 36442651 | Neuropharmacology | IF |

## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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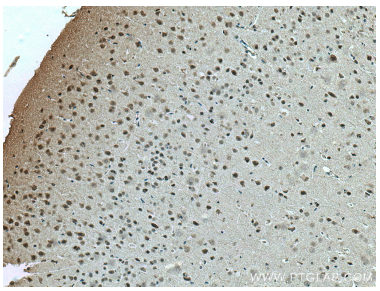
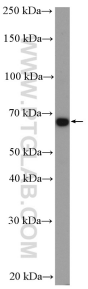
**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26192-1-AP (c-Fos antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 26192-1-AP (c-Fos antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.