

For Research Use Only

c-Fos Monoclonal antibody

Catalog Number: 66590-1-Ig

Featured Product

102 Publications



Basic Information

Catalog Number:

66590-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG24340

GenBank Accession Number:

BC004490

GeneID (NCBI):

2353

UNIPROT ID:

P01100

Full Name:

FOS

Calculated MW:

41 kDa

Observed MW:

55-60 kDa

Purification Method:

Protein G purification

CloneNo.:

1G2C5

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit

Positive Controls:

WB: HeLa cells, HepG2 cells, HSC-T6 cells, Jurkat cells, U-937 cells, RAW 264.7 cells, K-562 cells, THP-1 cells, NIH/3T3 cells

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 |
|--------------|-----------|----------------|-------------|
| Ning Wang | 36235607 | Nutrients | WB |
| Hongbing Lin | 36114617 | Stem Cells Dev | WB |
| Xuming Wang | 36187757 | Front Physiol | WB, IHC |

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

*** 20ul sizes contain 0.1% BSA

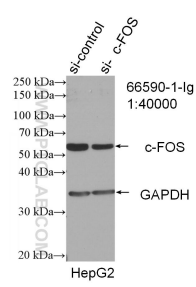
For technical support and original validation data for this product please contact:

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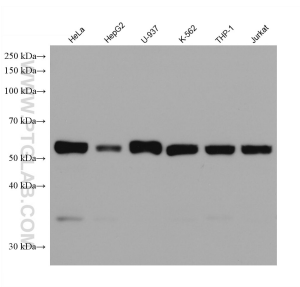
E: proteintech@ptglab.com
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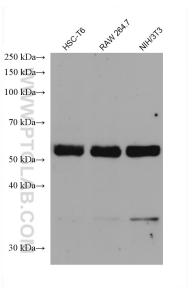
Selected Validation Data



WB result of c-Fos antibody (66590-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-c-Fos transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66590-1-Ig (c-Fos antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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