

For Research Use Only

c-Fos Monoclonal antibody

Catalog Number: 66590-1-Ig

Featured Product

93 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

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

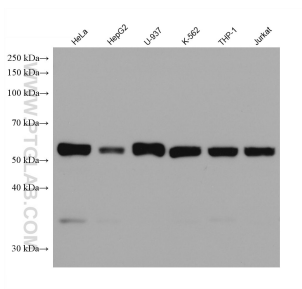
For technical support and original validation data for this product please contact:

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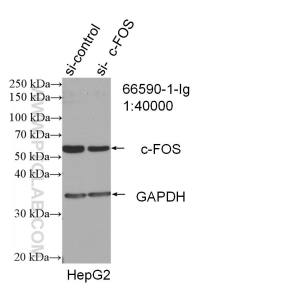
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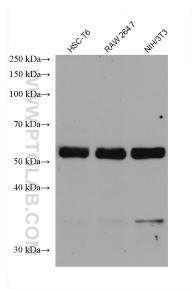
Selected Validation Data



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.



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.