

For Research Use Only

c-FOS Monoclonal antibody

Catalog Number: 66590-1-Ig

Featured Product

17 Publications



Basic Information

Catalog Number:

66590-1-Ig

Size:

150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG24340

GenBank Accession Number:

BC004490

GeneID (NCBI):

2353

Full Name:

FOS

Calculated MW:

41 kDa

Observed MW:

55-60 kDa

Purification Method:

Protein A purification

CloneNo.:

1G2C5

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:250-1:1000

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

Human, rat, mouse

Cited Species:

human, mouse

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 : HepG2 cells, HeLa cells, Jurkat cells, U-937 cells, RAW 264.7 cells

IHC : mouse brain tissue,

Background Information

c-FOS, also named as Proto-oncogene c-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. FOS is expressed at very low levels in quiescent cells. When cells are stimulated to reenter growth, FOS undergo 2 waves of expression, the first one peaks 7.5 minutes following FBS induction. At this stage, the 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 FOS protein becomes nuclear. The calculated molecular weight of FOS is 40 kDa, but Phosphorylated 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
Fangqiao Lv	34660604	Front Cell Dev Biol	WB
Yong Du	33191393	Med Sci Monit	IHC
Junzhuo Si	34743709	Virol J	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

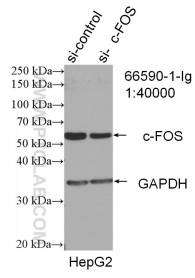
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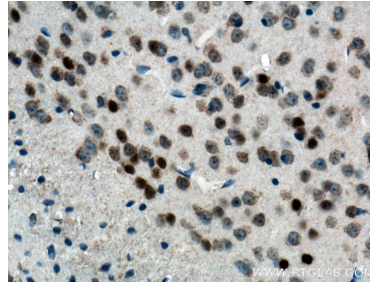
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W: ptglab.com

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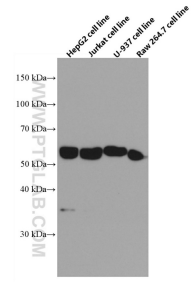
Selected Validation Data



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



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66590-1-Ig (FOS antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66590-1-Ig (FOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.