

For Research Use Only

# c-Fos Monoclonal antibody

Catalog Number: 66590-1-Ig

Featured Product

92 Publications



## Basic Information

<b>Catalog Number:</b> 66590-1-Ig	<b>GenBank Accession Number:</b> BC004490	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2353	<b>CloneNo.:</b> 1G2C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P01100	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> FOS	
<b>Immunogen Catalog Number:</b> AG24340	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> 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
<b>Cited Applications:</b> WB, IHC, IP, CoIP	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

## 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

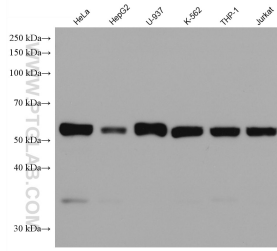
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

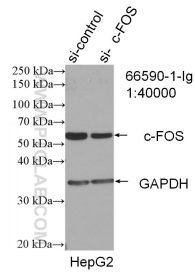
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

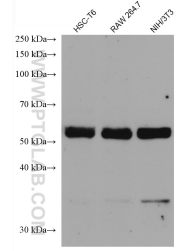
## Selected Validation Data



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.