For Research Use Only

c-Fos Monoclonal antibody, PBS Only

Catalog Number:66590-1-PBS Featured Product 1 Publications

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Basic Information

Catalog Number:
66590-1-PBS

Size:
100ug , Concentration: 1mg/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

Applications

Tested Applications:
WB, Indirect ELISA

Cited Applications:
IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

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

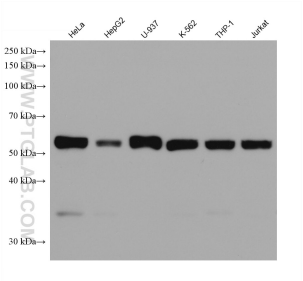
Author	Pubmed ID	Journal	Application
Hongtao Zhu	39447031	Neuro Oncol	IHC

Storage

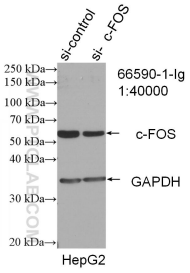
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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
W: ptglab.com

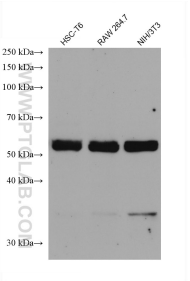
Selected Validation Data



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. This data was developed using the same antibody clone with 66590-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66590-1-PBS in a different storage buffer formulation.



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