

For Research Use Only

c-Fos Polyclonal antibody

Catalog Number: 26192-1-AP

Featured Product

32 Publications



Basic Information

Catalog Number: 26192-1-AP	GenBank Accession Number: BC004490	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 247 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2353	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P01100	
Isotype: IgG	Full Name: FOS	
Immunogen Catalog Number: AG24340	Calculated MW: 41 kDa	
	Observed MW: 65 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB : RAW 264.7 cells, IHC : mouse brain tissue, rat brain tissue
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat, canine	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Kun Lu	29285195	Oncol Lett	IF
Disi Bai	30542609	Toxicol Res (Camb)	WB
Yu-Zhe Li	36442651	Neuropharmacology	IF

Storage

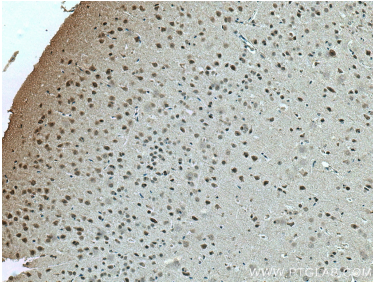
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

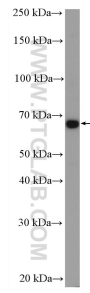
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26192-1-AP (c-Fos antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 26192-1-AP (c-Fos antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.