For Research Use Only

## c-Fos Polyclonal antibody

Catalog Number:26192-1-AP

Featured Product

28 Publications



Basic Information	Catalog Number: 26192-1-AP	GenBank Accession Number: BC004490	Purification Method: Antigen affinity purification
	Size: 247 µg/ml	GenelD (NCBI): 2353	Recommended Dilutions: WB 1:500-1:1000
	Source: Rabbit	UNIPROT ID: P01100	IHC 1:50-1:500
	lsotype: IgG	Full Name: FOS	
	Immunogen Catalog Number: AG24340	Calculated MW: 41 kDa	
		Observed MW: 65 kDa	
Applications	Tested Applications: IHC. WB. ELISA	Positi	ve Controls:
	Cited Applications: WB, IF, IHC	IHC : r	AW 264.7 cells, nouse brain tissue, rat brain tissue
	Species Specificity: human, mouse, rat		
	Cited Species: human, rat, mouse, 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 (Ca	mb) WB
	Yu-Zhe Li	36442651 Neuropharmaco	ology IF
Storage	Storage: Store at -20°C. Stable for one ye Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -2	ear after shipment. nd 50% glycerol pH 7.3. 0 <sup>°</sup> C storage	
For technical support and original validation da T: 4006900926 E: Proteintech-CN	ta for this product please contact: @ptglab.com W: ptgr	This pro cn.com Group b	duct is exclusively available under Proteintech rand and is not available to purchase from any

other manufacturer.

## Selected Validation Data



Immunohistochemical analysis of paraffinembedded 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.