10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# c-Fos Antibody
**Rabbit mAb**
**Catalog # AP91027**

## Specification

### c-Fos Antibody - Product Information

| | |
|---|---|
| Application | **WB, FC** |
| Primary Accession | P01100 |
| Reactivity | **Rat** |
| Clonality | **Monoclonal** |
| **Other Names** | |
| activator protein 1; AP-1; C-FOS; FOS; G0S7; | |
| Isotype | **Rabbit IgG** |
| Host | **Rabbit** |
| Calculated MW | **40695 Da** |

### c-Fos Antibody - Additional Information

| | |
|---|---|
| Dilution | **WB~~1:1000**<br>**FC~~1:10~50** |
| Purification | **Affinity-chromatography** |
| Immunogen | **A synthesized peptide derived from human c-Fos** |
| Description | **Fos a proto-oncogenic transcription factor of the bZIP family. Dimerizes with proteins of the JUN family, thereby forming the transcription factor complex AP-1. FOS proteins function as regulators of cell proliferation, differentiation, and transformation. In some cases, expression of FOS has also been associated with apoptotic cell death. Expression increases upon a variety of stimuli, including growth factors, cytokines, neurotransmitters, polypeptide hormones, stress and cell injury.** |
| Storage Condition and Buffer | **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.** |

### c-Fos Antibody - Protein Information

**Name** FOS

**Synonyms** G0S7

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### Function
Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, FOS and JUN/AP-1 basic regions each seems to interact with symmetrical DNA half sites. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling. Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation. In growing cells, activates phospholipid synthesis, possibly by activating CDS1 and PI4K2A. This activity requires Tyr-dephosphorylation and association with the endoplasmic reticulum.

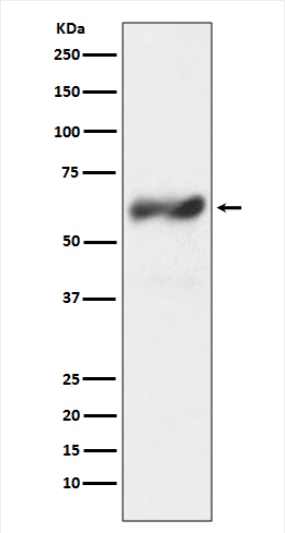
### Cellular Location
Nucleus. Endoplasmic reticulum. Cytoplasm, cytosol. Note=In quiescent cells, present in very small amounts in the cytosol. Following induction of cell growth, first localizes to the endoplasmic reticulum and only later to the nucleus. Localization at the endoplasmic reticulum requires dephosphorylation at Tyr-10 and Tyr- 30

## c-Fos Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## c-Fos Antibody - Images




Western blot analysis of c-Fos expression in HeLa cell lysate treated with TPA.