

# Anti-c-Fos Antibody

Catalog # ABO10644

## Product Information

---

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                            |
| <b>Primary Accession</b> | <a href="#">P01100</a>                                                                                        |
| <b>Host</b>              | Rabbit                                                                                                        |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                             |
| <b>Clonality</b>         | Polyclonal                                                                                                    |
| <b>Format</b>            | Lyophilized                                                                                                   |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Proto-oncogene c-Fos(FOS) detection.<br>Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                          |

## Additional Information

---

|                                 |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 2353                                                                                                                                                                                                                                                                                                                             |
| <b>Other Names</b>              | Proto-oncogene c-Fos, Cellular oncogene fos, G0/G1 switch regulatory protein 7, FOS, G0S7                                                                                                                                                                                                                                        |
| <b>Calculated MW</b>            | 40695                                                                                                                                                                                                                                                                                                                            |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse                                                                                                                                                                                                                                                                                   |
| <b>Subcellular Localization</b> | Nucleus. Endoplasmic reticulum. Cytoplasm, cytosol. 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. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Name</b>             | Proto-oncogene c-Fos                                                                                                                                                                                                                                                                                                             |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                                                                                                                                                    |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence in the middle region of human c-Fos(170-187aa DQLEDEKSALQTEIANLL), identical to the related rat and mouse sequences.                                                                                                                                                             |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                     |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                                                                                                          |

|                              |                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the bZIP family. Fos subfamily.                                                                                                                                            |

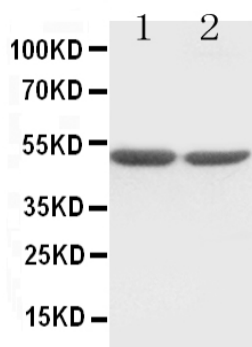
## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | FOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>          | G0S7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Function</b>          | 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. |
| <b>Cellular Location</b> | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Background

The human oncogene c-fos is cellular homolog of the transforming gene of Finkel-Biskis-Jinkins(FBJ) murine osteosarcoma virus which was mapped to a single human chromosome. c-Fos is encoded by the FOS gene. FOS was the first transcription factor identified that has a critical function in regulating the development of cells destined to form and maintain the skeleton. FOS is also a major component of the activator protein-1(AP-1) transcription factor complex, which includes members of the JUN family. c-fos is a major nuclear target for signal transduction pathways involved in the regulation of cell growth, differentiation, and transformation. Using transgenic and knockout mice, Grigoriadis et al.(1995) established a unique role for the proto-oncogene and nuclear transcription factor, Fos, in regulating the differentiation and activity of specific bone cell populations, both during normal development and in bone disease.

## Images



Anti-c-Fos antibody, ABO10644, Western blotting  
Lane 1: HT1080 Cell Lysate  
Lane 2: COLO320 Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.