

## c-Fos (phospho-T232) polyclonal antibody

Catalog: BS74001

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The Fos family of nuclear oncogenes includes c-Fos, FosB, Fos-related antigen 1 (FRA1), and Fos-related antigen 2 (FRA2) (1). While most Fos proteins exist as a single isoform, the FosB protein exists as two isoforms: full-length FosB and a shorter form, FosB2 (Delta FosB), that lacks the carboxy-terminal 101 amino acids (1-3). The expression of Fos proteins is rapidly and transiently induced by a variety of extracellular stimuli including growth factors, cytokines, neurotransmitters, polypeptide hormones, and stress. Fos proteins dimerize with Jun proteins (c-Jun, JunB, and JunD) to form Activator Protein-1 (AP-1), a transcription factor that binds to TRE/AP-1 elements and activates transcription. Fos and Jun proteins contain the leucine-zipper motif that mediates dimerization and an adjacent basic domain that binds to DNA. The various Fos/Jun heterodimers differ in their ability to transactivate AP-1 dependent genes. In addition to increased expression, phosphorylation of Fos proteins by Erk kinases in response to extracellular stimuli may further increase transcriptional activity (4-6). Phosphorylation of c-Fos at Ser32 and Thr232 by Erk5 increases protein stability and nuclear localization (5). Phosphorylation of FRA1 at Ser252 and Ser265 by Erk1/2 increases protein stability and leads to overexpression of FRA1 in cancer cells (6). Following growth factor stimulation, expression of FosB and c-Fos in quiescent fibroblasts is immediate, but very short-lived, with protein levels dissipating after several hours (7). FRA1 and FRA2 expression persists longer, and appreciable levels can be detected in asynchronously growing cells (8). Deregulated expression of c-Fos, FosB, or FRA2 can result in neoplastic cellular transformation; however, Delta FosB lacks the ability to transform cells (2,3).

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 62 kDa

### Swiss-Prot:

P01100

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB 1:500 - 1:1000

IHC 1:50 - 1:200

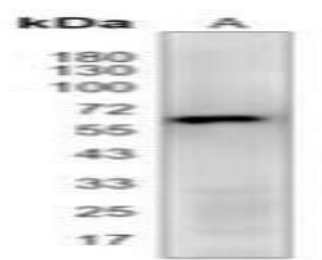
### Storage&Stability:

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

### Specificity:

c-Fos (phospho-T232) polyclonal antibody detects endogenous levels of c-Fos protein only when phosphorylated at Thr232.

### DATA:



Western blot analysis of c-Fos (Phospho-T232) expression in Jurkat (A) whole cell lysates.

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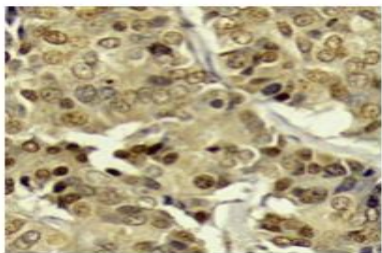
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## PRODUCT DATA SHEET

Bioworld Technology, Inc.



Immunohistochemical analysis of c-Fos (Phospho-T232) staining in human breast cancer formalin fixed paraffin embedded tissue section. T

### Note:

For research use only, not for use in diagnostic procedure.

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