

Product datasheet for TA332376S

Primary Antibodies

WB 1:500 - 1:2000

A synthetic peptide of human FOS

PBS with 0.05% proclin300,50% glycerol,pH7.3.

Stable for 12 months from date of receipt.

Fos proto-oncogene, AP-1 transcription factor subunit

IP, WB

Human Rabbit

Polyclonal

lot specific

41 kDa

NP 005243

P01100

Affinity purification

Store at -20°C as received.

Entrez Gene 2353 Human

Unconjugated

lgG

c Fos (FOS) Rabbit Polyclonal Antibody

Product data:

Recommended Dilution:

Product Type:

Applications:

Reactivity:

Clonality:

Immunogen:

Formulation:

Purification:

Conjugation:

Gene Name:

Database Link:

Predicted Protein Size:

Storage:

Stability:

Concentration:

Host: Isotype: OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GRIGENE c Fos (FOS) Rabbit Polyclonal Antibody – TA332376S

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).

Synonyms:	AP-1; C-FOS; p55
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	B cell receptor signaling pathway, Colorectal cancer, MAPK signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Western blot analysis of extracts of various cells, using FOS antibody.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US