Fos Family Antibody Sampler Kit

#8333 store at -20°C

1 Kit (5 x 20 microliters)

Cell Signaling

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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
c-Fos Antibody	4384	20 µl	62 kDa	Rabbit
Phospho-c-Fos (Ser32) (D82C12) XP® Rabbit mAb	5348	20 µl	62 kDa	Rabbit IgG
FosB (5G4) Rabbit mAb	2251	20 µl	38 FosB2 48 FosB kDa	Rabbit IgG
FRA1 (D80B4) Rabbit mAb	5281	20 µl	40 kDa	Rabbit IgG
Phospho-FRA1 (Ser265) (D22B1) Rabbit mAb	5841	20 µl	40 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Fos Family Antibody Sampler Kit provides an economical means to evaluate the Fos family of transcription factors. The kit includes enough antibody to perform two western blot experiments with each primary antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
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), which 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).
Background References	1. Tulchinsky, E. (2000) <i>Histol Histopathol</i> 15, 921-8. 2. Dobrazanski, P. et al. (1991) <i>Mol Cell Biol</i> 11, 5470-8.
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	 Basbous, J. et al. (2007) <i>Mol Cell Biol</i> 27, 3936-50. Kovary, K. and Bravo, R. (1991) <i>Mol Cell Biol</i> 11, 2451-9.
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