| e at -20C | ATF-2 Control Cell Extracts | HE . | Cell Signaling | |
|-----------|-------------------------------|--|--|--|
| Store | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| \sim | Controls for 10 western blots | Support | :: 877-678-TECH (8324) | |
| 223 | | Web: | info@cellsignal.com cellsignal.com | |
| 6# | | 3 Trask Lane Danvers Massachusetts 01923 USA | | |

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

| Product Includes | | Product # | Quantity | |
|--|---|---|--|--|
| ATF-2 Control Cell Extracts (3T3 untre | 68481 | 200 µl | | |
| ATF-2 Control Cell Extracts (3T3 +Anis | omycin) | 82288 | 200 µl | |
| Description | Nonphosphorylated ATF-2 Control Cell Extracts: Total extracts from NIH/3T3 cells, to serve as a negative control. Supplied in SDS Sample Buffer. Phosphorylated ATF-2 Control Cell Extracts: Total extracts from NIH/3T3 cells, treated with Anisomycin #2222 at 25 ug/ml for 30 minutes to serve as a positive control. Supplied in SDS Sample Buffer. | | | |
| Storage | Supplied in SDS Sample Buffer: 62.5 mM Tris-HCl (μ DTT, 0.01% w/v phenol red or bromophenol blue. S | ıpplied in SDS Sample Buffer: 62.5 mM Tris-HCl (pH 6.8 at 25°C), 2% w/v SDS, 10% glycerol, 50 mM TT, 0.01% w/v phenol red or bromophenol blue. Store at −20°C or at −80°C for long term storage. | | |
| Background | ckgroundThe transcription factor ATF-2 (also called CRE-BP1) binds to both AP-1 and CRE DNA response elem and is a member of the ATF/CREB family of leucine zipper proteins (1). ATF-2 interacts with a varied viral oncoproteins and cellular tumor suppressors and is a target of the SAPK/JNK and p38 MAP ki signaling pathways (2-4). Various forms of cellular stress, including genotoxic agents, inflammator cytokines, and UV irradiation, stimulate the transcriptional activity of ATF-2. Cellular stress activate ATF-2 by phosphorylation of Thr69 and Thr71 (2-4). Both SAPK and p38 MAPK have been shown to phosphorylate ATF-2 at these sites <i>in vitro</i> and in cells transfected with ATF-2. Mutations of these sites result in the loss of stress-induced transcription by ATF-2 (2-4). In addition, mutations at these site reduce the ability of E1A and Rb to stimulate gene expression via ATF-2 (2). | | CRE DNA response elements interacts with a variety of K/JNK and p38 MAP kinase ic agents, inflammatory Cellular stress activates K have been shown to 2. Mutations of these sites nutations at these sites | |
| Directions for Use | Boil for 3 minutes prior to use. Load 20 µl of phosp Extracts per lane. | bhorylated and nonphosp | horylated ATF-2 Control Cell | |
| Background References | 1. Abdel-Hafiz, H.A. et al. (1992) <i>Mol Endocrinol</i> 6, 2 2. Gupta, S. et al. (1995) <i>Science</i> 267, 389-93. 3. van Dam, H. et al. (1995) <i>EMBO J</i> 14, 1798-811. 4. Livingstone, C. et al. (1995) <i>EMBO J</i> 14, 1785-97. | 2079-89. | | |
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