c-Jun Control Cell Extracts

Controls for 10 western blots



Orders 877-616-CELL (2355)

orders@cellsignal.com

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info@cellsignal.com

Web www.cellsignal.com

rev. 10/26/17

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Product Includes	Product #	Quantity
c-Jun Control Cell Extracts (3T3 untreated)	92953	150 ul
c-Jun Control Cell Extracts (3T3 +UV)	31928	150 ul

Background: c-Jun is a member of the Jun Family containing c-Jun, JunB and JunD, and is a component of the transcription factor AP-1 (activator protein-1). AP-1 is composed of dimers of Fos, Jun and ATF family members and binds to and activates transcription at TRE/AP-1 elements (Reviewed in 1).

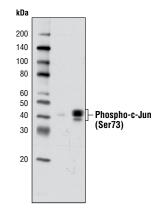
Extracellular signals including growth factors, chemokines and stress activate AP-1-dependent transcription. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 through SAPK/JNK (reviewed in 2). Knock-out studies in mice have shown that c-Jun is essential for embryogenesis (3), and subsequent studies have demonstrated roles for c-Jun in various tissues and developmental processes including axon regeneration (4), liver regeneration (5) and T cell development (6).

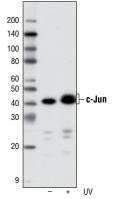
AP-1 regulated genes exert diverse biological functions including cell proliferation, differentiation, and apoptosis, as well as transformation, invasion and metastasis, depending on cell type and context (7-9). Other target genes regulate survival as well as hypoxia and angiogenesis (8,10). c-Jun has emerged as promising therapeutic target for cancer, vascular remodeling, acute inflammation, as well as rheumatoid arthritis (11-13).

Description: Nonphosphorylated c-Jun Control Cell Extracts: Total cell extracts from NIH/3T3 cells, serve as a negative control. Supplied in SDS Sample Buffer.

Phosphorvlated c-Jun Control Cell Extracts: Total cell extracts from NIH/3T3 cells, treated with 50 mJ UV light and a 30 minute recovery, serve as a positive control. Supplied in SDS Sample Buffer.

Directions for Use: Boil for 3 minutes prior to use. Load 15 µl of phosphorylated and nonphosphorylated c-Jun Control Cell Extracts per lane.





Western blot analysis of c-Jun Control Cell Extracts using Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb #3270 (upper) and c-Jun (60A8) Rabbit mAb #9165 (lower).

Storage Buffer: Supplied in SDS Sample Buffer: 62.5 mM Tris-HCI (pH 6.8 at 25°C), 2% w/v SDS, 10% glycerol, 50 mM DTT, 0.01% w/v phenol red or bromophenol blue. Store at -20°C or at -80°C for long term storage.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background References:

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