

TECHNICAL DATASHEET ELISA – c-JUN (p-Ser73)

ELISAONE™ c-JUN Assays

ELISAONE™ assay kits for analysis of cellular c-JUN (p-Ser73) phosphorylation and Total c-JUN

ELISAONE™ Overview

ELISAONE assay kits are for the detection of cellular proteins. A whole new way of performing cellular assays, ELISAONE takes the hard work out of running a standard ELISA, while still giving the high quality results expected from a sandwich immunoassay. Fully self-contained kits are supplied in a convenient 96-well format. Simple to use and highly sensitive, ELISAONE kits are designed to get results, fast.

ELISAONE™ phospho- c-JUN and total c-JUN assays

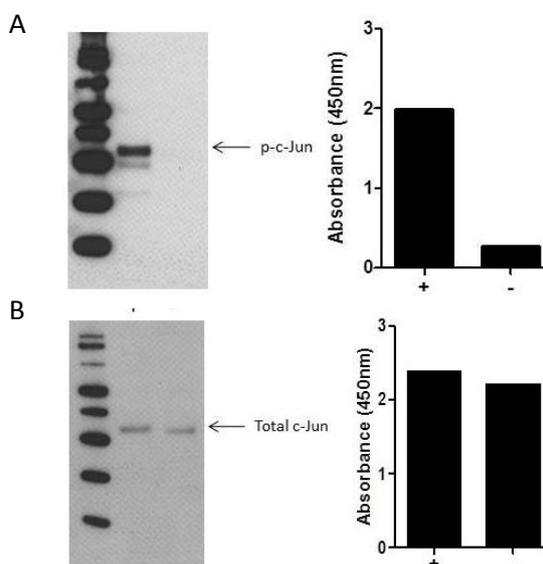
c-JUN is a component of the transcription factor AP-1, which is composed of dimers of members of the Fos and JUN protein families. c-JUN transcriptional activity is regulated by phosphorylation at Ser63 and Ser73. Many factors, including mitogenic and stress-induced signaling pathways, stimulate phosphorylation of c-JUN at Ser63 and Ser73 and activate c-JUN/AP-1-dependent transcription. JNK, whose activity is stimulated by the same signals, binds to the amino-terminal region of c-JUN and phosphorylates it directly. c-JUN/AP-1 dependant transcription is involved in the regulation of genes involved in many diverse and sometimes opposing cellular processes, including proliferation, survival, apoptosis, metastasis and inflammation, depending on the cell type.

ELISAONE™ c-JUN (p-Ser73) assay technical specifications

Specificity:

TGR's ELISAONE c-JUN (p-Ser73) assay kits detect endogenous levels of c-JUN (GenBank Accession NP_002219) in cellular lysates. Phospho-c-JUN (p-Ser73) assay kits only detect c-JUN when phosphorylated at Ser73. Total c-JUN assay kits detect c-JUN irrespective of phosphorylation status.

As shown, using the c-JUN (p-Ser73) assay kits or Western blot, c-JUN phosphorylation at Ser73 (A) is detected in anisomycin-treated NIH3T3 cells (+), compared with untreated cells (-), whereas no change in total c-JUN levels (B) was observed.



Species cross-reactivity: Tested: Human, Mouse
Expected: Rat

Other species should be tested on a case-by-case basis.

QC: Phospho-c-JUN and total c-JUN assays are routinely tested against anisomycin-treated NIH3T3 cellular lysates. See certificate of analysis for Lot-specific information. Available at www.tgrbio.com.

Ordering Information

ELISA^{ONE} Assay Kits are available now from:

CEDARLANE (www.cedarlanelabs.com)

US: 1-800-721-1644

CANADA: 1-800-268-5058

AXXORA (www.axxora.com)

US: 1-858-550-8830

Email: axxora-usa@axxora.com

Product	Pack Size	Catalog
Phospho-c-JUN (S73)	96 assays	EOK025
Total c-JUN	96 assays	EOK035

Complementary Products

ELISA^{ONE}[™] assay kits are available for the following targets:

MAPK Signaling:

ERK 1/2, p38 MAPK, JNK/SAPK, c-JUN

AKT Signaling:

AKT 1/2/3 (p-Thr308), AKT 1/2/3 (p-Ser473), p70S6K, Ribosomal protein S6, GSK3 β , BAD

STAT Signaling:

STAT1, STAT3, STAT5

NF- κ B Signaling:

NF- κ B p65, I- κ B α , IKK α

p53 Signaling:

p53

Wnt Signaling:

β -Catenin, GSK3 β

TGF β Signaling:

SMAD1, SMAD3

Protein normalization:

GAPDH

Also available separately:

Product	Pack Size	Catalog
ELISA ^{ONE} [™] 96-well strip-well microplates	1 plate	EPL001
	5 plates	EPL002
5X Lysis Buffer	100mL	EBF001
Enhancer Solution	100mL	EBF002
10X Wash Buffer	500mL	EBF003

Check our website (www.tgrbio.com) for the latest information on target availability.