

ELISAONE™ JNK 1/2 Assays

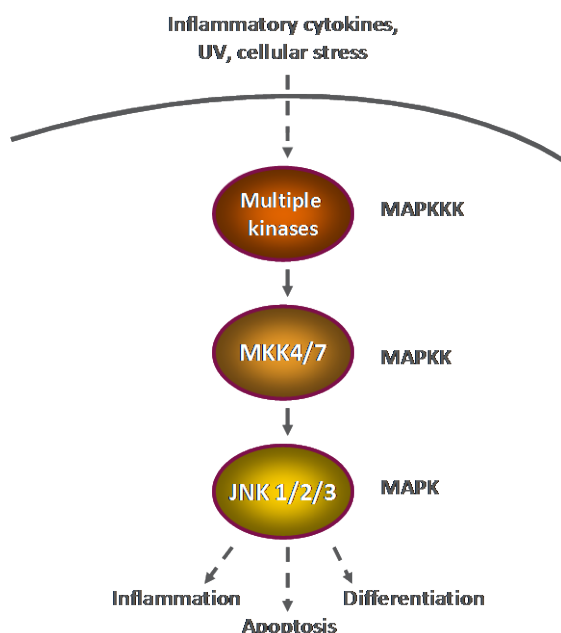
ELISAONE™ assay kits for analysis of cellular JNK 1/2 (p-Thr183/Tyr185) phosphorylation and Total JNK 1/2

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-JNK and Total JNK assays

c-Jun N-terminal kinases (JNKs) are mitogen-activated protein kinases which are activated in response to stress stimuli, including inflammatory cytokines, ultraviolet irradiation, heat shock, and osmotic shock. JNK proteins are encoded by three genes, JNK1, JNK2 and JNK3, which undergo alternate splicing to generate several isoforms for each gene.



JNK proteins are activated by phosphorylation, which is mediated through a classical MAPKKK/MAPKK/MAPK cascade, which in turn can be initiated through several mechanisms, generally in response to cellular stress signals. Activated

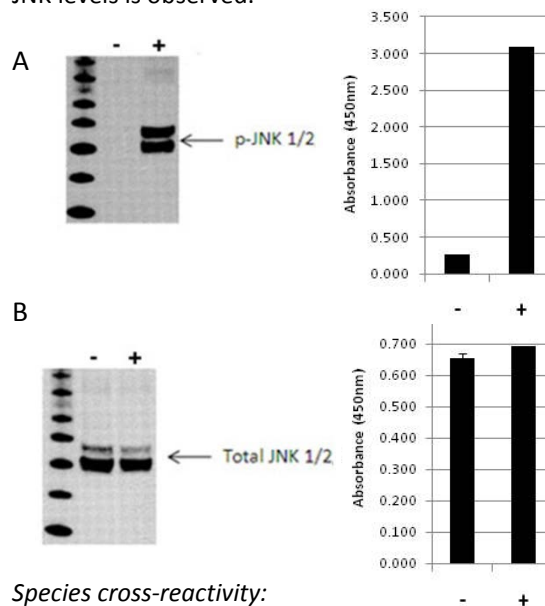
JNKs can phosphorylate several proteins, including the transcription factor c-JUN.

ELISAONE™ JNK assay technical specifications

Specificity:

TGR's ELISAONE JNK 1/2 assay kits detect endogenous levels of JNK 1/2 (GenBank Accessions NP_620637 [JNK1] and NP_620707 [JNK2]) in cellular lysates. Phospho-JNK 1/2 assay kits detect JNK only when phosphorylated at Thr183/Tyr185. Total JNK 1/2 assay kits detect JNK irrespective of phosphorylation status.

As shown below, using the JNK 1/2 assay kits, (A) a significant stimulation of JNK 1/2 phosphorylation at Thr183/Tyr185 is detected in HEK293 cells treated with anisomycin for 30 minutes compared with untreated cells, (B) while no change in total JNK levels is observed.



Species cross-reactivity:

Tested: Human, mouse

Expected: Rat

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

QC: Phospho-JNK and Total-JNK assays are routinely tested against HEK293 cellular lysates. See certificate of analysis for Lot-specific information. Available at www.tgrbio.com.

Ordering Information

ELISAONE 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-JNK 1/2 (T183/Y185)	96 assays	EOK054
Total JNK 1/2	96 assays	EOK055

Complementary Products

ELISAONE™ assay kits are available for the following targets:

MAPK Signaling:

ERK 1/2, p38 MAPK, JNK/SAPK

AKT Signaling:

AKT 1/2/3, p70S6K

STAT Signaling:

STAT3, STAT5

NF-κB Signaling:

NF-κB p65, I-κBα

p53 Signaling:

p53

Protein normalization:

GAPDH

Also available separately:

Product	Pack Size	Catalog
ELISAONE™ 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.