

ELISAONE™ NF- κ B p65 Assays

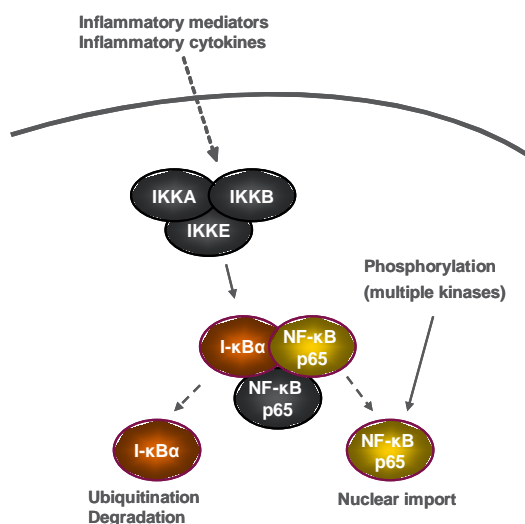
ELISAONE™ assay kits for analysis of cellular NF- κ B p65 (p-Ser536) phosphorylation and Total NF- κ B p65

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-NF- κ B p65 and Total NF- κ B p65 assays

The nuclear factor κ B transcription factor family plays a pivotal role in inflammatory and immune responses. There are five family known members, namely p65 (RelA), c-Rel, RelB, NF- κ B1 (p105/p50) and NF- κ B2 (p100/p52). The p50 and p52 products form dimeric complexes with Rel proteins, which bind DNA and regulate transcription. The most abundant form in many cell types is the p65/p50 complex.



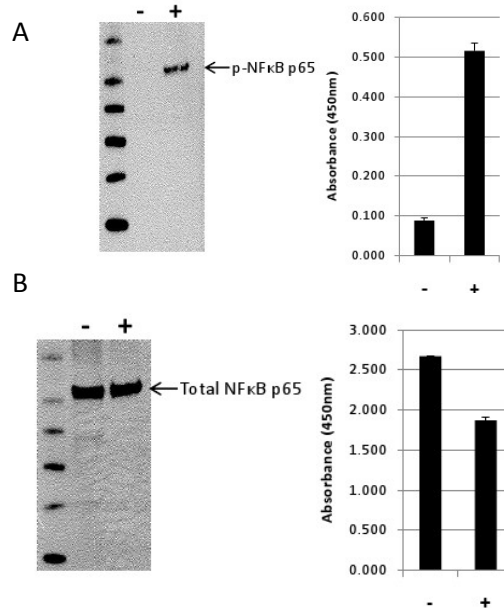
In unstimulated cells, NF- κ B is inactive in the cytoplasm, bound by I- κ B proteins. Activation of the NF- κ B pathway induces phosphorylation of I- κ Bs, targeting them for degradation through the ubiquitin-proteasome pathway. Free NF- κ B can then enter the nucleus, where it regulates expression of its target genes.

ELISAONE™ NF- κ B p65 assay technical specifications

Specificity:

TGR's ELISAONE NF- κ B p65 assay kits detect endogenous levels of NF- κ B p65 (GenBank Accession NP_068810) in cellular lysates. Phospho-NF- κ B p65 assay kits detect NF- κ B p65 only when phosphorylated at Ser536. Total NF- κ B p65 assay kits detect NF- κ B p65 irrespective of phosphorylation status.

As shown below, using the NF- κ B p65 assay kits, (A) a significant stimulation of NF- κ B p65 phosphorylation at Ser536 is detected in HeLa cells treated with TNF α for 10 minutes compared with untreated cells, (B) while little change in total NF- κ B p65 levels is observed.



Species cross-reactivity:

Tested: Human, Expected: Mouse, Rat
Other species should be tested on a case-by-case basis.

QC: Phospho-NF- κ B p65 and Total-NF- κ B p65 assays are routinely tested against HeLa 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-NF- κ B p65 (S536)	96 assays	EOK003
Total NF- κ B p65	96 assays	EOK013

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- κ B Signaling:

NF- κ B p65, I- κ B α

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.