

ELISAONE™ I- κ B α Assays

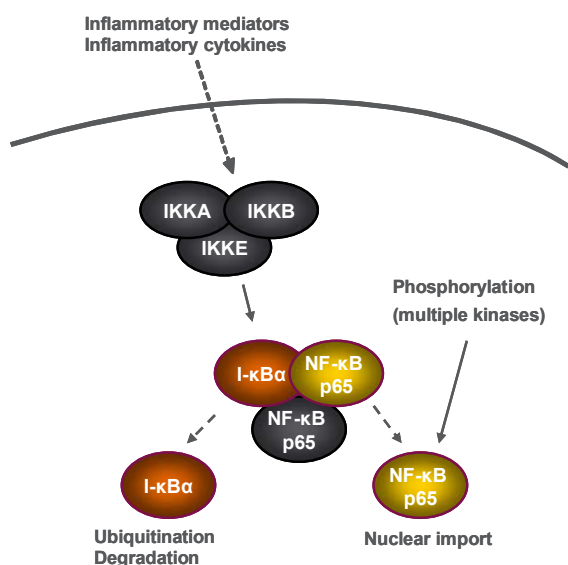
ELISAONE™ assay kits for analysis of cellular I- κ B α phosphorylation

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-I- κ B α and Total I- κ B α assays

I- κ B proteins are present in the cytosol bound to NF- κ B/Rel transcription factors, forming inactive complexes. Activation of NF- κ B/Rel occurs via phosphorylation of I- κ B, which targets I- κ B for proteasome-mediated degradation, releasing NF- κ B/Rel for phosphorylation and nuclear import.



I- κ B α phosphorylation is stimulated by many extracellular signals, such as inflammatory cytokines, growth factors and chemokines. Phosphorylation of I- κ B α at Ser32/36 is essential for the release of active NF- κ B, so phosphorylation at this site is a good marker of NF- κ B activation.

ELISAONE™ I- κ B α assay technical specifications

Specificity:

TGR's ELISAONE I- κ B α assay kits detect endogenous levels of I- κ B α (GenBank Accession NP_065390) in cellular lysates. Phospho-I- κ B α assay kits detect I- κ B α only when phosphorylated at Ser32/36. Total I- κ B α assay kits detect I- κ B α irrespective of phosphorylation status.

Species cross-reactivity:

Tested: Human

Expected: Mouse, Rat

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

Kit contents:

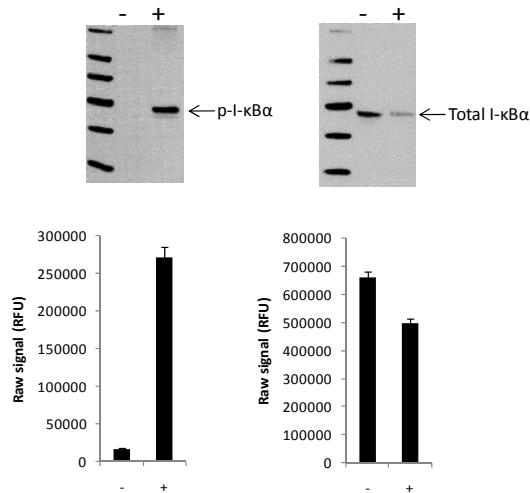
	24-pt Reagent kit	96-well full kit
Capture Antibody Reagent	1 x 0.75 mL	1 x 3.0 mL
Detection Antibody Reagent	1 x 0.75 mL	1 x 3.0 mL
Lysis Buffer (5X)	1 x 2 mL	1 x 8 mL
Enhancer Solution	1 x 0.5 mL	1 x 1 mL
ADHP Dilution Buffer	2 x 1.5 mL	2 x 6 mL
ADHP (100X)	1 x 30 μ L	1 x 120 μ L
Wash Buffer (10X)	1 x 2 mL	1 x 8 mL
Stop Solution	1 x 0.5 mL	1 x 2 mL
Assay Control Lysate	1 x 250 μ L	1 x 250 μ L
ELISA-One™ assay microplate	n/a	1 x 96-well microplate
Adherent plate seals	n/a	2

QC:

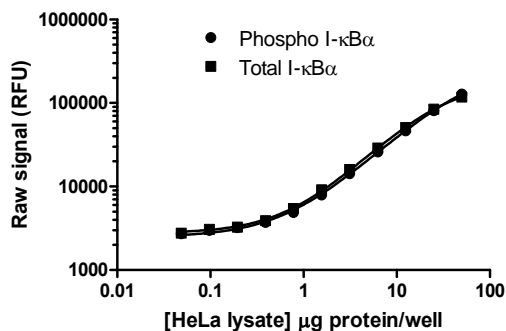
Phospho-I- κ B α and Total I- κ B α assays are routinely tested against HeLa cellular lysates. See certificate of analysis for Lot-specific information. Available at www.tgrbio.com.

ELISAONE™ I-κBα assay performance

As shown below, analysis using either Western blot or ELISAONE I-κBα assay kits, revealed significant stimulation of I-κBα phosphorylation at Ser32/36 is detected in HeLa cells treated with TNFα for 5 minutes compared with untreated cells, while little change in total I-κBα levels is observed over this time period.



Using the ELISAONE phospho-I-κBα and Total I-κBα assays, the amount of lysate required to detect I-κBα in TNFα-treated HeLa cell lysates was examined. Up to 50 μg of lysate/well was loaded into replicate wells of an ELISAONE microplate, and analyzed for either phospho-I-κBα or total I-κBα. Both phospho-I-κBα and total I-κBα were readily detected in less than 10 μg of lysate/well.



ELISAONE I-κBα assays are optimized for the rapid detection of I-κBα in cellular lysates.

Ordering Information

ELISAONE Assay Kits are available now from:

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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-I-κBα (p-Ser32/36)	24 assays	ERS004
	96 assays	EKT004
Total I-κBα	24 assays	ERS014
	96 assays	EKT014

* ELISAONE assay microplates are not supplied with 24pt kits, but can be purchase separately.

Complementary Products

ELISAONE™ 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, p70S6K, RPS6, BAD

STAT Signaling:

STAT3, STAT5

NF-κB Signaling:

NF-κB p65, I-κBα, IKKα

Other targets:

p53, CREB1, SMAD1, SMAD3

Wnt Signaling:

β-Catenin, GSK3β

Protein normalization:

GAPDH

Also available separately:

Product	Pack Size	Catalog
ELISAONE™ 96-wellregular microplates	1 plate	EPF001
	5 plates	EPF002
ELISAONE™ 96-wellstrip-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.