

ELISAONE™ GAPDH Assay

ELISAONE™ assay for analysis of cellular GAPDH

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™ GAPDH assay

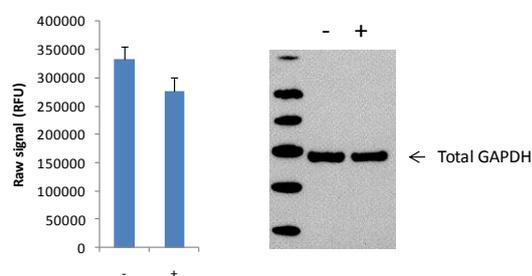
GAPDH is involved in carbohydrate metabolism within the cell, where it catalyzes the phosphorylation of glyceraldehydes-3-phosphate. GAPDH is considered to be a constitutively-expressed protein in many cells, and GAPDH mRNA levels are commonly measured as a control for measuring changes in the expression of other mRNAs. Similarly, measurement of GAPDH may be a useful control in many experiments, for monitoring total protein levels when measuring changes in phosphorylation of particular targets.

ELISAONE™ GAPDH assay technical specifications

Specificity:

TGR's ELISAONE GAPDH assay kits detect endogenous levels of GAPDH (GenBank Accession NP_002037) in cellular lysates.

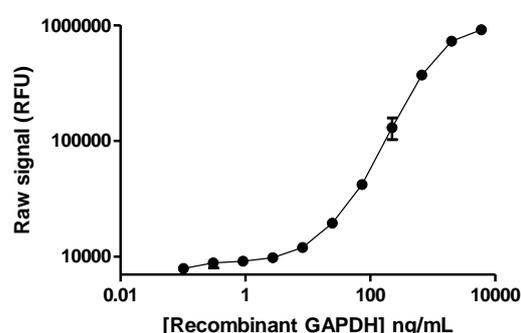
As shown below, using the GAPDH assay kit, cellular GAPDH is readily detected in HEK293 cellular lysates.



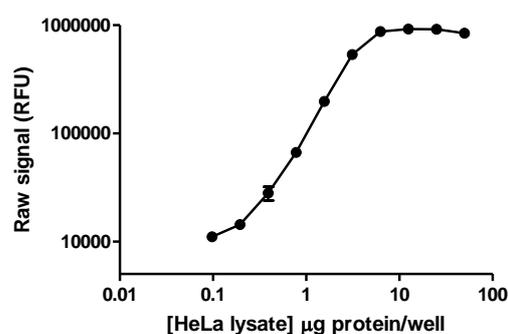
HEK293 cells, were either treated with anisomycin for 30 min or left untreated. The cells were lysed, and analyzed for GAPDH with either Western blot, or the ELISAONE GAPDH assay.

ELISAONE™ GAPDH assay performance

Various concentrations of recombinant GAPDH (Prospec Cat# 5252) diluted in Lysis Mix containing 0.1% BSA were analyzed using the ELISAONE cellular GAPDH assay. The recombinant GAPDH dilutions were transferred to an ELISAONE assay plate and analyzed using the standard ELISAONE assay protocol. Signal in the wells was determined using a Flexstation plate reader (Molecular Devices).



ELISAONE GAPDH assays are optimized for the rapid detection of GAPDH in cellular lysates.



Using the ELISAONE GAPDH assay, the amount of lysate required to detect GAPDH in HeLa cell lysates was examined. Up to 50 µg of lysate/well was loaded into replicate wells of an ELISAONE microplate, and analyzed for GAPDH. GAPDH was readily detected in less than 1 µg of lysate/well.

Species cross-reactivity

Tested: Human

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

QC

GAPDH 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
GAPDH	24 assays	ERS021
	96 assays	EKT021

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

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

More targets are being developed, including targets for interrogating apoptosis, WNT-signaling, and TGF-beta signaling. Check our website (www.tgrbio.com) for the latest information on target availability.

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