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## Datasheet for ABIN2866273 IRF3 ELISA Kit

### Overview

Quantity:	96 tests
Target:	IRF3
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA

### Product Details

Purpose:	DNA-binding ELISA that facilitate the study of transcription factor activation in mammalian tissue and cell culture extracts.
Brand:	TransAM®
Sample Type:	Cell Extracts, Tissue Samples
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	The TransAM IRF-3 Kits are tested for sensitivity and specificity in detecting IRF-3 activation.
Characteristics:	<p>Transcription factors are DNA-binding proteins that tightly regulate gene expression. They consist of two distinct domains - one that displays high affinity for a specific DNA sequence and one that confers transcriptional activity. Transcription factors are activated by phosphorylation of specific residues or by processing bound inhibitory proteins. Understanding and quantifying transcription factors is essential for the study of cell functions in relation to differentiation, brain activity, immune response, inflammation and various disease states.</p> <p>TransAM® Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the</p>

## Product Details

study of transcription factor activation in mammalian tissue and cell extracts.

TransAM® Kits are DNA-binding ELISAs that facilitate the study of transcription factor activation in mammalian tissue and cell extracts. Each kit includes a 96-stripwell plate in which multiple copies of a specific double-stranded oligonucleotide have been immobilized. When nuclear or whole-cell extract is added, activated transcription factor of interest binds the oligonucleotide at its consensus binding site and is quantified using the included antibody, which is specific for the bound, active form of the transcription factor being studied.

Components:	One or five 96-well plate(s) with plate sealer(s), primary antibody, HRP-conjugated secondary antibody, wild-type and mutated competitor oligonucleotides, positive control cell extract, DTT, Protease Inhibitor Cocktail, Lysis, Binding, 10X Washing and 10X Antibody Binding Buffers, and Developing and Stop Solutions.
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## Target Details

Target:	IRF3
Alternative Name:	Irf-3 ( <a href="#">IRF3 Products</a> )
Pathways:	<a href="#">TLR Signaling</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Hepatitis C</a> , <a href="#">Toll-Like Receptors Cascades</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Nuclear extracts prepared from untreated and poly (I-C) transfected Cos-7 cells were diluted down to 0.6 µg/well and assayed using the TransAM IRF-3 Kit. The ratio of the signals from the treated over the untreated cells must be above 4. Lot No. 33913005 was developed for 15 minutes. It gave a ratio of 20 (Figure 1). The relative activation of IRF-3 may vary depending on the cell type tested and the manner in which it was stimulated. TransAM IRF-3 assays are also tested for specificity. Kits are performed in the absence or presence of 20 pmol of competitor oligonucleotide that contains either a wild-type or mutated IRF consensus binding site (Figure 2). The wild-type oligonucleotide prevents IRF binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has a limited effect on IRF binding.
Assay Time:	5 h
Plate:	Pre-coated
Restrictions:	For Research Use only

## Handling

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Storage:	4 °C/-20 °C/-80 °C
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Storage Comment:	Store the cell extract at -80°C. All other kit components can be stored at -20°C prior to first use. Then, we recommend storing the kit at 4°C except for the oligonucleotides, DTT, Protease Inhibitor Cocktail and Poly [d(I-C)] that should be kept at -20°C. This product is guaranteed for 6 months from date of receipt.
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Expiry Date:	6 months
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