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Datasheet for ABIN2866264 Estrogen Receptor alpha ELISA Kit



Overview

Quantity:	96 tests
Target:	Estrogen Receptor alpha (ESR1)
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	DNA-binding ELISA that facilitate the study of transcription factor activation in mammalien
	tissue and cell culture extracts.
Brand:	TransAM®
Sample Type:	Cell Extracts, Tissue Samples
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	TransAM ER Kits are tested for sensitivity in detecting ER in nuclear extracts from MCF-7 cells that are either untreated or post-treated with H_2O_2 .
Characteristics:	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.

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Product Details

Components:	One or five 96-well plate(s) with plate sealer(s), primary antibody, HRP-conjugated secondary
	which is specific for the bound, active form of the transcription factor being studied.
	oligonucleotide at its consensus binding site and is quantified using the included antibody,
	nuclear or whole-cell extract is added, activated transcription factor of interest binds the
	multiple copies of a specific double-stranded oligonucleotide have been immobilized. When
	activation in mammalian tissue and cell extracts. Each kit includes a 96-stripwell plate in which
	TransAM® Kits are DNA-binding ELISAs that facilitate the study of transcription factor
	study of transcription factor activation in mammalian tissue and cell extracts.
	TransAM $^{ m I\!R}$ Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the

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.

Target Details

Target:	Estrogen Receptor alpha (ESR1)
Alternative Name:	Estrogen Receptor 1 (ESR1 Products)
Pathways:	Nuclear Receptor Transcription Pathway, EGFR Signaling Pathway, Retinoic Acid Receptor
	Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway, Ribonucleoprotein Complex Subunit Organization,
	Ribosome Assembly

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	These extracts are diluted down to 0.313 μ g/well and assayed using the TransAM ER Kit. The
	ratio of the signals from the treated over the untreated cells must be above 4. Lot No.
	01403001 was developed for 5 minutes. It gave a ratio of 17 (Figure 1). The basal level of ER
	expression, and this ratio, may vary depending on the cell type tested and the treatment used.
	TransAM ER Kits are also tested for specificity in detecting ER activation. TransAM ER assays
	are performed in the presence of an excess of oligonucleotide containing a wild-type or
	mutated ER consensus binding site (Figure 2). At 20X excess, the wild-type oligonucleotide
	prevents binding to the probe immobilized on the plate. Conversely, the mutated
	oligonucleotide has little effect on ER binding.
Assay Time:	5 h

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Application Details	
Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Except for the cell extract that must be kept at -80°C, the kit components can be stored at -20°C prior to first use. Then, we recommend storing the kit at 4°C except for the primary antibody, oligonucleotides, DTT, Poly [d(I-C)] and Protease Inhibitor Cocktail that should be kept at -20°C, and the cell extract at -80°C. This product is guaranteed for 6 months from date of receipt.
Expiry Date:	6 months