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Datasheet for ABIN2866291 SP1 ELISA Kit



Overview		
Quantity:	96 tests	
Target:	SP1	
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 Sp1 Kits are tested for sensitivity in detecting Sp1 in untreated or H_2O_2 -post treated nuclear extracts from MCF-7 cells.	
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

	TransAM® Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the
	study of transcription factor activation in mammalian tissue and cell extracts.
	TransAM ${ m I\!R}$ 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,

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:	SP1
Alternative Name:	Sp1 (SP1 Products)
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Myometrial Relaxation and Contraction

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	These extracts are diluted down to 0.625 μ g/well and assayed using the TransAM Sp1 Kit. The
	ratio of the signals from the untreated over the H_2O_2 -post treated extracts must be above 4. Lot
	No. 25610007 was developed for 3 minutes. It gave a ratio of 8 (Figure 1). The endogenous
	level of Sp1 expression, and this ratio, may vary depending on the cell type tested and the
	treatment used to inactivate Sp1. TransAM Sp1 Kits are also tested for specificity in detecting
	Sp1 activity. TransAM Sp1 assays are performed in the presence of an excess of
	oligonucleotide containing a wild-type or mutated Sp1 consensus binding site (Figure 2). At 20X
	excess, the wild-type oligonucleotide prevents Sp1 binding to the probe immobilized on the
	plate. Conversely, the mutated oligonucleotide has little effect on Sp1 binding.
Assay Time:	5 h
Plate:	Pre-coated
Restrictions:	For Research Use only

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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 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	