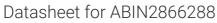
# antibodies -online.com







# p53 ELISA Kit



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Quantity:	96 tests	
Target:	p53 (TP53)	
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 p53 Kits are tested for sensitivity in detecting p53 in nuclear extracts from MCF-7	
	cells that are either untreated or treated for 3 hours with 200 $\mu$ M H <sub>2</sub> O <sub>2</sub> .	
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.	

# **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® 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.

# **Target Details**

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Pathways:	p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C,
	Protein targeting to Nucleus, Autophagy, Warburg Effect

## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.	
Comment:	These extracts are diluted down to 0.625 $\mu g/well$ and assayed using the TransAM p53 Kit. The	
	ratio of the signals from the treated over the untreated cells must be above 4. Lot 08614019	
	was developed for 3 minutes. It gave a ratio of 4.3 (Figure 1). The basal level of p53 expression,	
	and this ratio, may vary depending on the cell type tested and the treatment used. TransAM p53	
	Kits are also tested for specificity in detecting p53 activation. TransAM p53 assays are	
	performed in the presence of an excess of oligonucleotide containing a wild-type or mutated	
	p53 consensus binding site (Figure 2). At 20X excess, the wild-type oligonucleotide prevents	
	p53 binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has	
	little effect on p53 binding.	
Assay Time:	5 h	
Plate:	Pre-coated	

# **Application Details**

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 oligonucleotides, DTT, poly[d(I-C)], primary antibody 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