Datasheet for ABIN2866260

c-MYC ELISA Kit

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Overview

Quantity:	96 tests
Target:	c-MYC (MYC)
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 c-Myc Kits are tested for sensitivity in detecting c-Myc activation.
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. TransAM® Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the

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.

Target Details

Target:	c-MYC (MYC)
Alternative Name:	C-Myc (MYC Products)
Pathways:	p53 Signaling, Cell Division Cycle, Sensory Perception of Sound, Transition Metal Ion Homeostasis, Mitotic G1-G1/S Phases, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Nuclear extracts prepared from unstimulated Jurkat (1 day growth) and U-937 cells are diluted to 0.625 µg/well and assayed using the TransAM c-Myc Kit. The ratio of the signals from the Jurkat cells over the U-937 cells must be above 4. Lot No. 06012008 was developed for 2.5 minutes. It gave a ratio of 403.5 (Figure 1). The endogenous level of c-Myc expression, and this ratio may vary depending on the cell type tested and the treatment used. TransAM c-Myc Kits are also tested for specificity in detecting c-Myc activity. TransAM c-Myc assays are performed in the presence of an excess of oligonucleotide containing a wild-type or mutated c-Myc consensus binding site (Figure 2). At 20X excess, the wild-type oligonucleotide prevents c-Myc binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has no effect on c-Myc binding.
Assay Time:	5 h

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Store the cell extract at -80°C. 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, primary antibody, DTT and Protease Inhibitor Cocktail that should be kept at -20°C. This product is guaranteed for 6 months from date of receipt.
Expiry Date:	6 months