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Datasheet for ABIN2866256
C-JUN ELISA Kit

Overview

Quantity:	2 x 96 tests
Target:	C-JUN (JUN)
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 AP-1 Family Kit is tested for sensitivity and specificity in detecting AP-1 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.

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: C-JUN (JUN)

Alternative Name: Ap-1 ([JUN Products](#))

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [WNT Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Activation of Innate immune Response](#), [Myometrial Relaxation and Contraction](#), [Skeletal Muscle Fiber Development](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [Autophagy](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [BCR Signaling](#), [S100 Proteins](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Nuclear extracts are prepared from WI-38 VA13 cells that have been stimulated with PMA/Ionomycin. TransAM assays are performed using 5 µg/well of extract with the c-Jun, c-Fos, FosB, Fra-1, Fra-2, JunB and JunD antibodies found in the TransAM AP-1 Family Kit. The TransAM assays are performed in the absence or presence of a 20X excess of competitor oligonucleotides, which contain either a wild-type or mutated AP-1 consensus binding site (Figure 1). The wild-type oligonucleotide prevents AP-1 binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has a limited effect on AP-1 binding. The relative activation of the family members may vary depending on the cell type tested and the manner in which it was stimulated.

Assay Time: 5 h

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 oligonucleotides, the c-Jun antibody, 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
