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## Datasheet for ABIN2866293

### SOAT1 ELISA Kit

#### Overview

Quantity:	2 x 96 tests
Target:	SOAT1
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 STAT Family Kit is tested for sensitivity and specificity in detecting STAT 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.
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## Target Details

Target:	SOAT1
Alternative Name:	Stat ( <a href="#">SOAT1 Products</a> )

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Using 1:1000 dilutions of STAT1, STAT5A and STAT5B antibodies and a 1:500 dilution of STAT3 antibody provided in the kit are tested using 5 µg/well of nuclear extract prepared from a stimulated cell line: STAT1a is tested with U-937 (TPA + IFNg), STAT3 with HepG2 (IL-6, 100 ng/ml), and STAT5A and STAT5B with Nb2 (Prolactin). The relative activation of each family member may vary depending on the cell type tested and the manner in which it was stimulated. TransAM assays are performed in the absence or presence of 20 pmol of competitor oligonucleotide that contains either a wild-type or mutated STAT consensus binding site (Figure 1). The wild-type oligonucleotide prevents STAT binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has a limited effect on STAT binding.
Assay Time:	5 h
Plate:	Pre-coated
Restrictions:	For Research Use only

## Handling

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Storage: 4 °C/-20 °C/-80 °C

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Storage Comment: Store the cell extracts at -80°C. All 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, the antibodies, DTT and Protease Inhibitor Cocktail that should be kept at -20°C, and the cell extracts at -80°C. This product is guaranteed for 6 months from date of receipt.

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Expiry Date: 6 months