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Datasheet for ABIN2866290

**PPARG ELISA Kit**

## Overview

Quantity:	96 tests
Target:	PPARG
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:	TransAM® PPARγ Kits are tested for sensitivity in detecting PPARγ in nuclear extracts from COS-7 cells that are either untransfected or transfected with recombinant PPARγ.
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:	PPARG
Alternative Name:	Pparg ( <a href="#">PPARG Products</a> )
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Lipid Metabolism by PPARalpha</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Brown Fat Cell Differentiation</a> , <a href="#">Positive Regulation of fat Cell Differentiation</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	These extracts are diluted down to 0.625 µg/well and assayed using the TransAM PPARγ Kit. The ratio of the signals from the transfected cells over the untransfected cells must be above 3. Lot No. 24114005 was developed for 15 minutes. It gave a ratio of 7.6 (Figure 1). The basal level of PPARγ expression, and this ratio, may vary depending on the cell type tested and the stimulation used. TransAM PPARγ Kits are also tested for specificity. TransAM PPARγ assays are performed in the presence of an excess of oligonucleotide containing a wild-type or mutated PPARγ consensus binding site (Figure 2). At 40 pmol, the wild-type oligonucleotide prevents PPARγ binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide has little effect on PPARγ binding.
Assay Time:	5 h

## Application Details

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Plate: Pre-coated

Restrictions: For Research Use only

## Handling

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Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Store the cell extract at -80°C. All other components should be stored at -20°C prior to first use. Then, store them at 4°C, except for the primary and secondary antibodies, oligonucleotides, DTT and Protease Inhibitor Cocktail, which should be kept at -20°C, and the cell extract, which should be stored at -80°C. This product is guaranteed for 6 months from date of receipt.

Expiry Date: 6 months