

Datasheet for ABIN2866294 STAT3 ELISA Kit



Overview

Quantity:	96 tests
Target:	STAT3
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 STAT3 Kits are tested for sensitivity 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.
	TransAM® Kits are sensitive, non-radioactive transcription factor ELISA kits that facilitate the

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2866294 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

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:	STAT3
Alternative Name:	Stat3 (STAT3 Products)
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Neurotrophin Signaling Pathway, Dopaminergic Neurogenesis, Response to Growth Hormone Stimulus, Carbohydrate
	Homeostasis, Stem Cell Maintenance, Hepatitis C, Protein targeting to Nucleus, Feeding
	Behaviour, CXCR4-mediated Signaling Events, Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Nuclear extracts prepared from HepG2 cells that are either unstimulated or stimulated with IL-6
	are diluted to 0.625 μ g/well and assayed using the TransAM STAT3 Kit. The ratio of the signals
	from the stimulated over unstimulated cells must be above 4. Lot No.04114017 was developed
	for 10 minutes. It gave a ratio of 4.8 at 5ug/well (Figure 1). This ratio may vary depending on the
	basal level of STAT activation in a given cell type and the stimulation used. TransAM STAT3
	Kits are also tested for specificity in detecting STAT activation. TransAM STAT assays are
	performed in the presence of an excess of oligonucleotide containing a wild-type or mutated
	STAT consensus binding site (Figure 2). At 20X excess, the wild-type oligonucleotide prevents
	STAT binding to the probe immobilized on the plate. Conversely, the mutated oligonucleotide
	has no effect on STAT binding.
Assay Time:	5 h

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN2866294 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

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 antibody, oligonucleotides, 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