

# Cellular Activation of Signaling ELISA:

## CASE™ Kit for JUN S73

<u>Catalog Number</u>	<u>Contents</u>
FE-009	One CASE Kit for 96 cell-based assays

### Description

The CASE™ Kit for JUN is designed to analyze JUN phosphorylation in cultured human and mouse cell lines. This cell-based ELISA kit quantifies the amount of activated (phosphorylated) JUN protein relative to total JUN protein. The JUN phosphorylation site is serine 73. By determining JUN protein phosphorylation in your experimental model system, you can verify JUN pathway activation in your cell line and determine the effect of various treatments, inhibitors, or activators on the pathway.

#### **More information on JUN protein from NCBI:**

The proto-oncogene Jun binds other subunits to form an Activator Protein-1 (AP1) complex, which acts as a transcription factor by binding to the TPA response element (TRE) of several cellular and viral genes. It is the prototypical nuclear effector of the JNK signal transduction pathway, but is also regulated by p38 MAPK. Jun plays an important role in the cellular communication pathways that regulate normal growth, development and differentiation. Growth factors, transforming oncoproteins, and UV irritation can stimulate phosphorylation of Jun at serine 73.

Reference: [www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=44890066](http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=44890066)

### Materials Included

**Please check the kit components immediately after you receive this package. SuperArray is not responsible for any missing items not reported within two (2) business days upon receipt.**

**Shelf Life:** All reagents are stable at the recommended temperature for 6 months after receipt of the kit.

Enough reagents are provided for 96 assays.

<b>Box 1: Assay and Detection Reagents</b> (Store at 4°C)	<b>Box 2: Primary Antibodies<sup>1</sup></b> (Store at -20°C)	
<b>Components</b>	<b>Components</b>	<b>Dilution Factor</b>
10X Antigen Retrieval Buffer <sup>2</sup>	Anti-Phospho-Protein Specific Antibody	1:100
10X Washing Buffer <sup>2</sup>	Anti-Pan-Protein Specific Antibody	1:100
Antibody Dilution Buffer		
Blocking Buffer, dry powder <sup>3</sup>		
Cell Staining Solution		
Developing Solution		
Secondary Antibody <sup>1</sup> (Dilute 1:16 before use.)		
Stop Solution		
Washing Buffer Reservoir (4)		

<sup>1</sup>Each antibody stock must be freshly diluted by the appropriate factor into Antibody Dilution Buffer on the same day of the experiment. See the CASE™ Kit User Manual for more details.

<sup>2</sup>10X Washing Buffer and 10X Antigen Retrieval Buffer must be diluted to 1X with dH<sub>2</sub>O before use.

<sup>3</sup>Just before use, dissolve powder in 30 ml 1X Washing Buffer by mixing well. Once dissolved, Blocking Buffer may be stored at 4 °C for up to two (2) weeks.

## **Shipping and Storage Conditions**

Box 1 is shipped at either ambient or a refrigerated temperature and should be stored at 4°C.

Box 2 is shipped on dry ice or cold packs and should be stored at -20°C.

## **Related Products**

Inhibitors for Functional Assays: Inhibitors of pathway activation that serve as a control for specificity.

### **For follow-up at the expression level:**

RT<sup>2</sup> Profiler™ PCR Arrays and Oligo GEArray® Microarrays  
(See [www.superarray.com/ArrayList.php](http://www.superarray.com/ArrayList.php) for complete listings)

RT<sup>2</sup> Real-Time™ PCR Primer Sets – available for every human, mouse, and rat gene  
(See [www.superarray.com/QRTsearch.php](http://www.superarray.com/QRTsearch.php) for our primer set search engine)

### **For knock down of gene expression:**

SureSilencing™ shRNA Plasmids – available for every human, mouse, and rat gene  
(See [www.superarray.com/RNAisearch.php](http://www.superarray.com/RNAisearch.php) for complete listings)