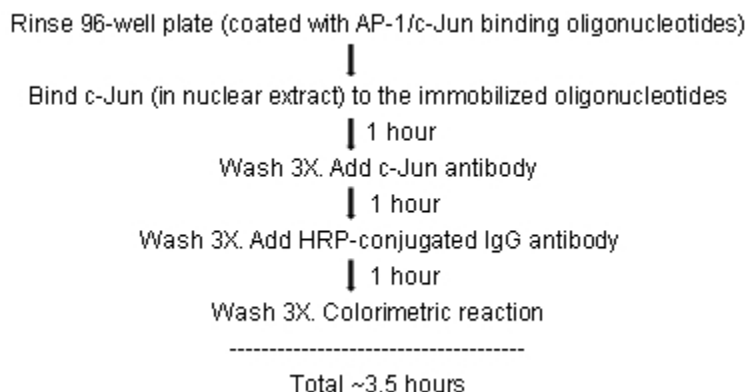


## F-Detect™ AP-1/c-Jun Activity Assay Kit

c-Jun, together with Fos and other Jun-related proteins, forms a homodimeric or heterodimeric transcription factor complex AP-1. TF-Detect™ AP-1/c-Jun Activity Assay kit enables fast and sensitive detection of Ser73-phosphorylated c-Jun in human, mouse or rat samples in a 96-well format. Double-stranded oligonucleotides containing the AP-1/c-Jun consensus binding site are immobilized in the 96-well plate. The c-Jun proteins present in nuclear extracts are captured by the immobilized oligonucleotides specifically. The Ser73-phosphorylated c-Jun is detected by a phosphor-c-Jun antibody and a HRP-conjugated secondary antibody. The colorimetric signal generated by HRP substrate TMB can be easily quantified by spectrophotometry. The Ser73 phospho-c-Jun antibody that detects Ser73-phosphorylated c-Jun also recognizes Ser100-phosphorylated JunD, as this site is conserved between c-Jun and JunD.

### Protocol Overview



## Advantages

### Multiple species

- Detects human, mouse or rat active c-Jun

### Sensitive

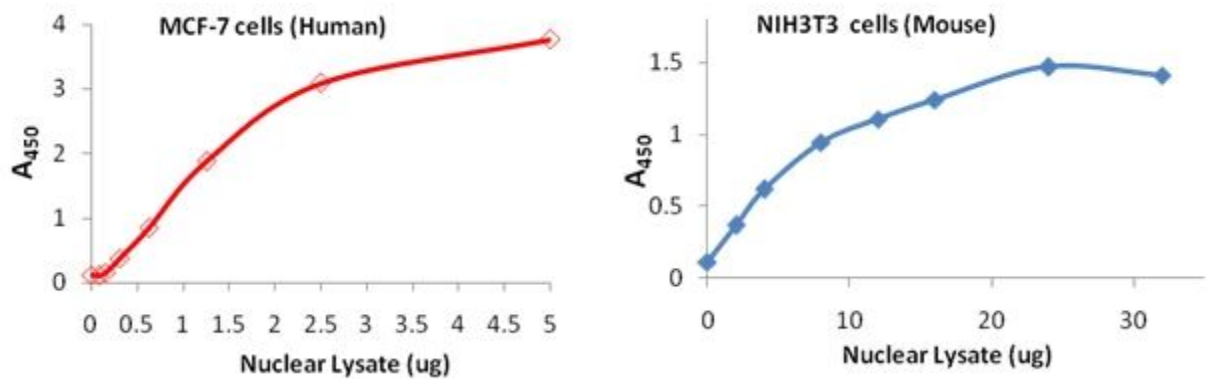
- Detect Ser73-phosphorylated c-Jun in as low as 0.2 µg of nuclear lysate

### HTS compatible

- Optimized 96-well format for high-throughput analysis on 96-well plate readers
- Single strip (8-well) assay can also be performed

### Fast

- 3 and 1/2 hours from preparation to detection



**Figure 1.** The activities of c-Jun proteins in the nuclear extracts of MCF-7 (left) and NIH3T3 (right) cells were detected using the TF-Detect AP-1/c-Jun Activity Assay Kit. Both cell types were treated with UV light for 20 Sec before harvesting. The cellular nuclear extracts were prepared following the Preparation of Nuclear Extract protocol in the Appendix.

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Catalog#	Product	Description	contact
TAK-JUN-196	TF-Detect™ AP-1/c-Jun Activity Assay Kit (one 96-well plate)	Quick detection of active c-Jun in human, mouse or rat cellular nuclear extracts	<a href="http://www.lifetechindia.com">www.lifetechindia.com</a>

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