

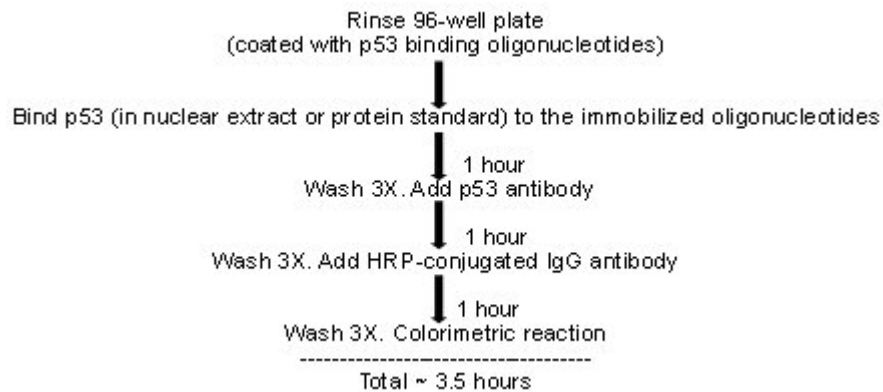
Contact : customerservice@lifetechindia.com

TF-Detect™ Human P53 Activity Assay Kit

TF-Detect™ Human P53 activity assay kit enables fast and sensitive detection and quantification of p53 in a 96-well format. Double-stranded oligonucleotides containing a p53 consensus binding site are immobilized in a 96-well plate. The p53 proteins present in nuclear extracts are captured by the immobilized oligonucleotides specifically and then detected by a p53 antibody and a HRP-conjugated secondary antibody. The colorimetric signal generated by HRP substrate TMB can be easily quantified by spectrophotometry.

A purified recombinant human p53 protein is also provided in the kit for use as a protein standard to provide quantitative data for comparing p53 activities of different sample types and/or time points.

Protocol overview



Advantages

Sensitive

- Detects as little as 0.8 ng of human p53 protein

Quantitative

- Purified recombinant human p53 protein included for use as a protein standard to provide quantitative comparison of p53 activities of different sample types and/or time points

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

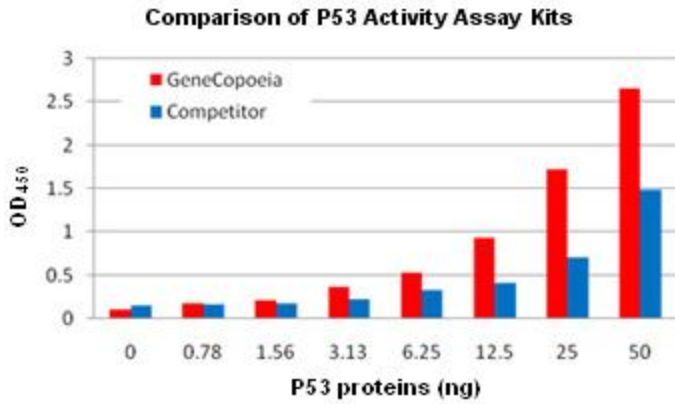


Figure 1. Performance comparison between GeneCopoeia's TF-Detect Human p53 Activity Assay kit and a similar competitor product. A human recombinant p53 protein was detected and quantified using both kits.

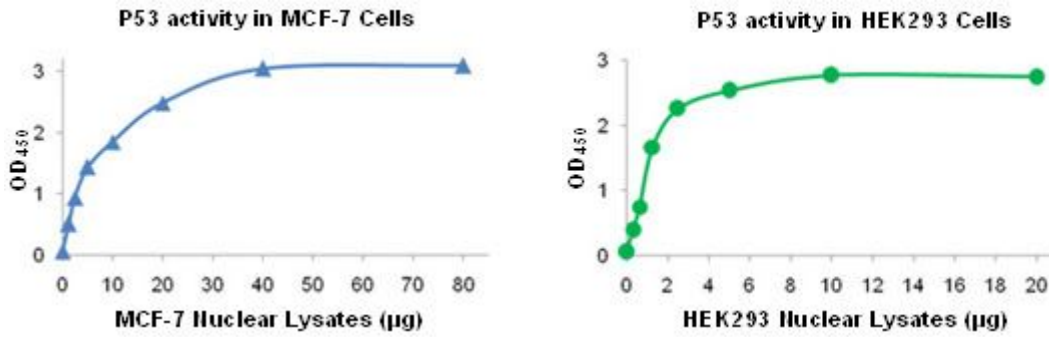


Figure 2. The activity of p53 proteins from the nuclear extracts of MCF-7 (Left) and HEK293 (Right) cells were detected using the TF-Detect P53 activity assay kit. Both cell types were treated with 0.2mM H₂O₂ for 3 hours before harvesting. The cell nuclear extracts were prepared following the Preparation of Nuclear Extract protocol in the manual.

Catalog number	Product	Description	Price
TAK-P53-196	TF-Detect™ p53 Activity Assay Kit (one 96-well plate)	Quick detection and quantification of active p53 in cell nuclear extracts	PI contact www.lifetechindia.com