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Datasheet for ABIN5690759 **p53 ELISA Kit**

2 Images



Overview

Quantity:	96 tests
Target:	p53 (TP53)
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	Human p53 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical p53 binding sequences to semi-quantitatively detect active p53 in lysates or nuclear extracts. Only available in North America.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human p53 in whole lysates and nuclear extracts.
Characteristics:	 Specific transcription factor-DNA binding assay Perfect alternative to EMSA Easy to perform in an ELISA format Non-radioactive assay High throughput (96 well plate format) Assay can be completed within 5 hours

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Product Details

96-well Strip Microplate pre-coated with DNA probesDNA Binding Buffer
Positive Control Sample
Specific Competitor DNA probe
Non-specific Competitor DNA probe
Assay Reagent
• DTT
Wash Buffer
Primary Antibody
HRP-conjugated Secondary Antibody
TMB One-Step Substrate Reagent
Stop Solution
Distilled or deionized water
100 mL and 1 liter graduated cylinders
Tubes to prepare sample dilutions
Absorbent paper
 Precision pipettes to deliver 2 µL to 1 mL volumes
Adjustable 1-25 mL pipettes for reagent preparation
Benchtop rocker or shaker
 Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target:	р53 (ТР53)
Alternative Name:	p53 (TP53 Products)
Gene ID:	7157
UniProt:	P04637
Pathways:	p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin
	Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C,
	Protein targeting to Nucleus, Autophagy, Warburg Effect

Application Details

Plate:	Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual.
	2. Add 100 μ L of sample or positive control to each well.
	3. Incubate 2 h at RT or O/N at 4 °C.
	4. Add 100 μL of prepared primary antibody to each well.

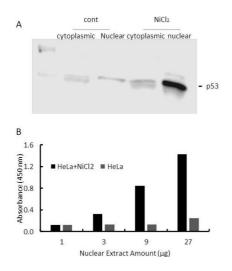
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	 5. Incubate 1 h at RT. 6. Add 100 μL of prepared HRP-secondary antibody to each well. 7. Incubate 1 h at RT. 8. Add 100 μL of TMB One-Step Substrate Reagent to each well. 9. Incubate 30 min at RT. 10. Add 50 μL of Stop Solution to each well. 11. Read at 450 nm immediately.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C
Storage Comment:	Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened

Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge. Note: The kit can be used within one year if the whole kit is stored at -20°C upon receipt. Avoid repeated freeze-thaw cycles.

Expiry Date:

Images

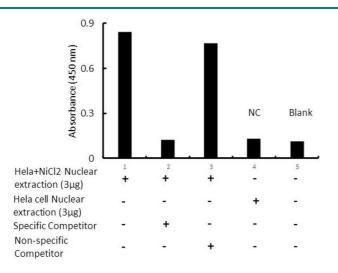


6 months

Activity Assay

Image 1. Transcription factor assay of p53 from nuclear extracts of HeLa cells or HeLa cells treated with NiCl2. After stimulation activated p53 binds with its corresponding DNA. A. Western-blot result of p53 from cytoplasm and nuclear fractions. B. Transcription factor assay of p53 from nuclear fractions with p53 TF-Activity Assay Kit.

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Activity Assay

Image 2. Transcription factor assay of p53 from nuclear extracts of HeLa cells or HeLa cells treated with NiCl2 with the specific competitor or non-specific competitor. The result shows specific binding of p53 to the p53 DNA binding site.

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