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Datasheet for ABIN5690763

SP1 ELISA Kit

2 Images



Overview

Quantity:	96 tests
Target:	SP1
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	Human Sp1 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical Sp1 binding sequences to semi-quantitatively detect active Sp1 in lysates or nuclear extracts.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human Sp1 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

Product Details

Components:

- 96-well Strip Microplate pre-coated with DNA probes
- · DNA 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

Material not included:

- 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:	SP1
Alternative Name:	Sp1 (SP1 Products)
Gene ID:	6667
UniProt:	P08047
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Myometrial Relaxation and Contraction

Application Details

Plate:	Pre-coated Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual.
	2. Add 100 µL 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.
	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

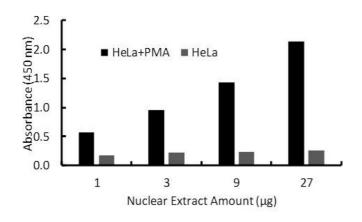
Storage Comment:

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:

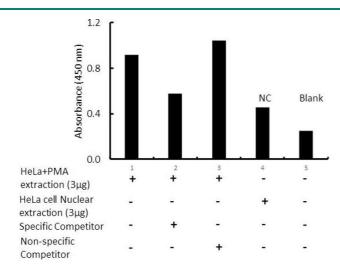
6 months

Images



Activity Assay

Image 1. Transcription factor assay of Sp1 from nuclear extracts of HeLa cells or HeLa cells treated with PMA (50 ng/ml) for 3 hr with the Activity Assay Kit.



Activity Assay

Image 2. Transcription factor assay of Sp1 from nuclear extracts of HeLa cells or HeLa cells treated with PMA (50 ng/ml) for 3 hr with the specific competitor or non-specific competitor. The result shows specific binding of Sp1 to the conserve binding site detected by using the Sp1 TF Activity Assay Kit.