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Datasheet for ABIN4889785 CD40 ELISA Kit

2 Images



## Overview

Quantity:	96 tests
Target:	CD40
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	Human NF-кВ p50 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical NF-кB binding sequences to semi-quantitatively detect active NF-кB 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 NF-κB p50 in whole lysates and nuclear extracts.
Characteristics:	<ul> <li>Specific transcription factor-DNA binding assay</li> <li>Perfect alternative to EMSA</li> <li>Easy to perform in an ELISA format</li> <li>Non-radioactive assay</li> <li>High throughput (96 well plate format)</li> </ul>

• Assay can be completed within 5 hours

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## Product Details

Components:	<ul> <li>96-well Strip Microplate pre-coated with DNA probes</li> <li>DNA Binding Buffer</li> <li>Positive Control Sample</li> <li>Specific Competitor DNA probe</li> <li>Non-specific Competitor DNA probe</li> <li>Assay Reagent</li> <li>DTT</li> <li>Wash Buffer</li> <li>Primary Antibody</li> <li>HRP-conjugated Secondary Antibody</li> <li>TMB One-Step Substrate Reagent</li> </ul>
Material not included:	<ul> <li>Stop Solution</li> <li>Distilled or deionized water</li> <li>100 mL and 1 liter graduated cylinders</li> <li>Tubes to prepare sample dilutions Absorbent paper</li> <li>Precision pipettes to deliver 2 µL to 1 mL volumes</li> <li>Adjustable 1-25 mL pipettes for reagent preparation</li> </ul>
	<ul> <li>Adjustable 1-23 mL pipettes for reagent preparation</li> <li>Benchtop rocker or shaker</li> <li>Microplate reader capable of measuring absorbance at 450 nm</li> </ul>

## Target Details

Target:	CD40
Alternative Name:	p50 (CD40 Products)
UniProt:	P19838
Pathways:	NF-kappaB Signaling, Cellular Response to Molecule of Bacterial Origin, M Phase, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints

# Application Details

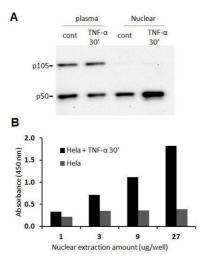
Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	<ol> <li>Prepare all reagents and samples as instructed in the manual.</li> <li>Add 100 μL of sample or positive control to each well.</li> <li>Incubate 2 h at RT or O/N at 4 °C.</li> </ol>

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	4. Add 100 µL of prepared primary antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 $\mu$ L 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:	-20 °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

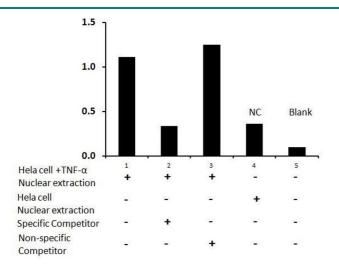


6 months

## **Activity Assay**

**Image 1.** Transcription factor activity assay of NF-κB p50 from nuclear extracts of HeLa cells or HeLa cells treated with TNF-α. After stimulation with TNF-α for 30 minutes, activated NF-κB p50 is translocated into the nucleus where it binds with its corresponding DNA. A. Western-blot result of NF-κB p50 from cytoplasm and nuclear fractions. B. Transcription factor activity assay of NF-κB p50 from nuclear fractions with the NF-κB p50 Transcription Factor Activity Assay Kit.

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#### **Activity Assay**

**Image 2.** Transcription factor activity assay of NF-κB p50 from nuclear extracts of HeLa cells or HeLa cells treated with TNF- $\alpha$  with the specific competitor or non-specific competitor. The result shows specific binding of NF-κB p50 to the NF-κB canonical DNA binding site.

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