



[Go to Product page](#)

Datasheet for ABIN5690752

Estrogen Receptor alpha ELISA Kit

2 Images

Overview

Quantity:	96 tests
Target:	Estrogen Receptor alpha (ESR1)
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA

Product Details

Purpose:	Human ER-alpha Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical ER-alpha binding sequences to semi-quantitatively detect active ER-alpha in lysates or nuclear extracts.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The oligonucleotide/antibody pair provided in this kit recognizes mouse ER-alpha in whole lysates and nuclear extracts.
Characteristics:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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:	Estrogen Receptor alpha (ESR1)
Alternative Name:	ER-alpha (ESR1 Products)
Gene ID:	2099
UniProt:	P03372
Pathways:	Nuclear Receptor Transcription Pathway , EGFR Signaling Pathway , Retinoic Acid Receptor Signaling Pathway , Intracellular Steroid Hormone Receptor Signaling Pathway , Steroid Hormone Mediated Signaling Pathway , Ribonucleoprotein Complex Subunit Organization , Ribosome Assembly

Application Details

Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">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.

Application Details

5. Incubate 1 h at RT.
6. Add 100 μ L of prepared HRP-secondary antibody to each well.
7. Incubate 1 h at RT.
8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50 μ L of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions: For Research Use only

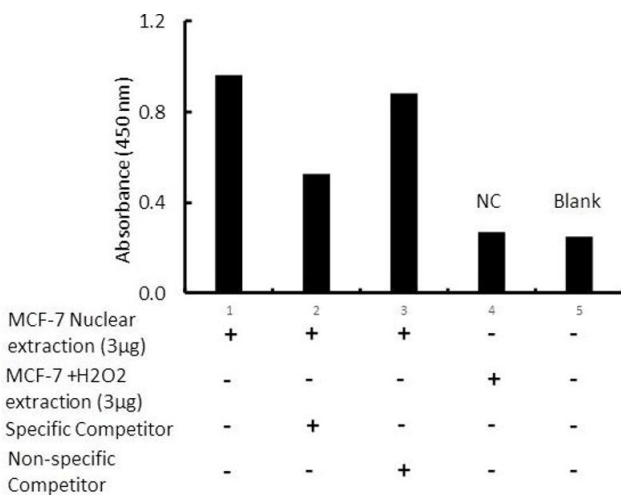
Handling

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.

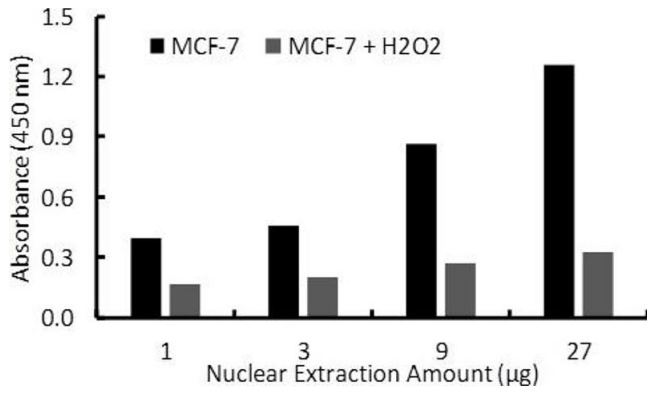
Expiry Date: 6 months

Images



Activity Assay

Image 1. Transcription factor assay of ER-alpha from nuclear extracts of MCF-7 cells or MCF-7 cells treated with H2O2 (200uM) for 3 hr with the specific competitor or non-specific competitor. The result shows specific binding of ER-alpha to the conserved binding site detected by using ER-alpha TF Activity Assay Kit.



Activity Assay

Image 2. Transcription factor assay of ER-alpha from nuclear extracts of MCF-7 cells or MCF-7 cells treated with H2O2 (200uM) for 3 hr with Activity Assay Kit.