

Datasheet for ABIN5526731
NRF2 ELISA Kit

2 Images

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Overview

Quantity:	96 tests
Target:	NRF2 (NFE2L2)
Reactivity:	Mouse
Method Type:	DNA-Binding ELISA
Application:	ELISA

Product Details

Purpose:	Mouse Nrf2 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical Nrf2 binding sequences to semi-quantitatively detect active Nrf2 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 oligonucleotide/antibody pair provided in this kit recognizes mouse Nrf2 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
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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
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Target Details

Target:	NRF2 (NFE2L2)
Alternative Name:	Nrf2 (NFE2L2 Products)
Gene ID:	18024
UniProt:	Q60795
Pathways:	ER-Nucleus Signaling , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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.5. Incubate 1 h at RT.6. Add 100 µL of prepared HRP-secondary antibody to each well.

Application Details

- 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

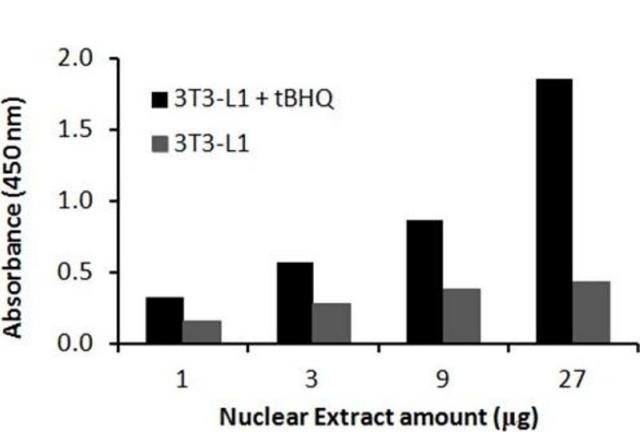
Handling

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.

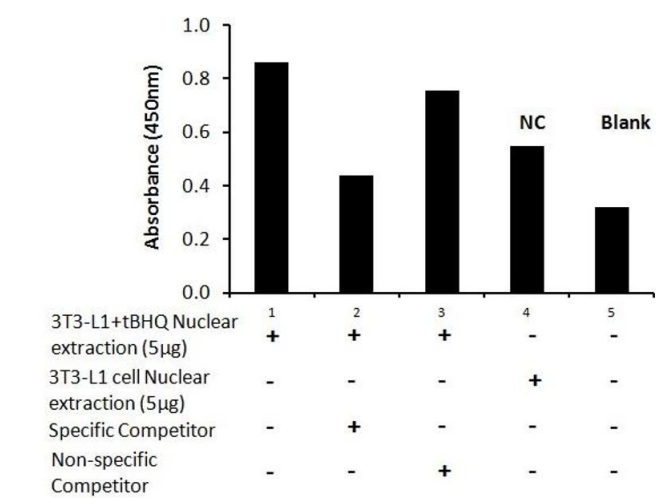
Expiry Date: 6 months

Images



Activity Assay

Image 1. Transcription factor activity assay of mouse Nrf2 from nuclear extracts of 3T3-L1 cells or HepG2 cells treated with tBHQ (90uM) for 24 hr. After stimulation activated mouse Nrf2 is translocated into the nucleus where it binds with its corresponding DNA. Transcription factor assay was performed by using the Mouse Nrf2 Transcription Factor Activity Assay Kit.



Activity Assay

Image 2. Transcription factor activity assay of mouse Nrf2 from nuclear extracts of 3T3-L1 cells or 3T3-L1 cells treated with tBHQ (90uM) for 24 hr with the specific competitor or non-specific competitor. The result shows specific binding of mouse Nrf2 to the mouse ARE binding site detected by using the Mouse Nrf2 Transcription Factor Activity Assay Kit.