Datasheet for ABIN5690751

# ELK1 ELISA Kit

2 Images

Go to Product page

## Overview

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| Quantity: | 96 tests |
| Target: | ELK1 |
| Reactivity: | Human |
| Method Type: | DNA-Binding ELISA |
| Application: | ELISA |

## Product Details

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| Purpose: | Human ELK-1 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical ELK-1 binding sequences to semi-quantitatively detect active ELK-1 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 ELK-1 in whole lysates and nuclear extracts. |
| Characteristics: | • Specific transcription factor-DNA binding assay<br>• Perfect alternative to EMSA<br>• Easy to perform in an ELISA format<br>• Non-radioactive assay<br>• High throughput (96 well plate format)<br>• Assay can be completed within 5 hours |

## Product Details

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

## Target Details

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| Target: | ELK1 |
| Alternative Name: | ELK-1 (ELK1 Products) |
| Gene ID: | 2002 |
| UniProt: | P19419 |
| Pathways: | MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades, Signaling of Hepatocyte Growth Factor Receptor, BCR Signaling |

## Application Details

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| Plate: | Pre-coated |
| Protocol: | 1. Prepare all reagents and samples as instructed in the manual.<br>2. Add 100 µL of sample or positive control to each well.<br>3. Incubate 2 h at RT or O/N at 4 °C.<br>4. Add 100 µL of prepared primary antibody to each well.<br>5. Incubate 1 h at RT. |

## Application Details

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.

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| Restrictions: | For Research Use only |

## Handling

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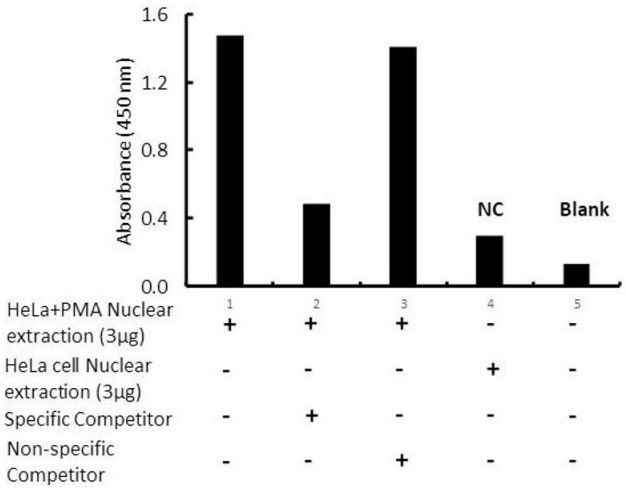
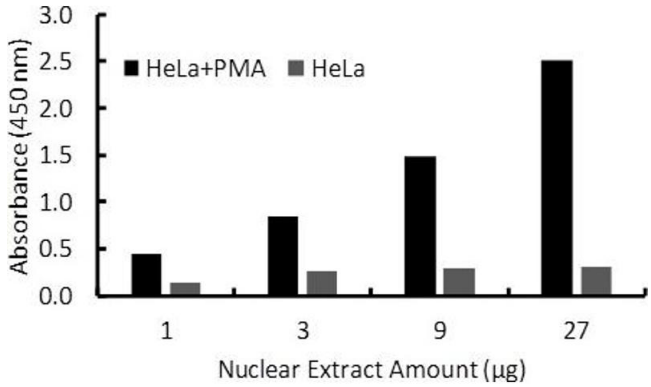
| Storage: | 4 °C |
| Storage Comment: | Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return 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 ELK-1 from nuclear extracts of HeLa cells or HeLa cells treated with PMA for 3 hr with the specific competitor or non-specific competitor. The result shows specific binding of ELK-1 to the ARE binding site detected by using the TF Activity Assay Kit.




**Activity Assay**

**Image 2.** Transcription factor assay of ELK-1 from nuclear extracts of HeLa cells or HeLa cells treated with PMA for 3 hr. After stimulation activated ELK-1 binds with its corresponding DNA with the TF Activity Assay Kit.