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## Datasheet for ABIN4885951 **eIF4EBP1 ELISA Kit**

### Overview

Quantity:	96 tests
Target:	eIF4EBP1 (EIF4EBP1)
Binding Specificity:	pThr36
Reactivity:	Mouse, Human
Method Type:	Sandwich ELISA
Application:	ELISA

### Product Details

Purpose:	Human/Mouse Phospho-4E-BP1 (T36) ELISA Kit. This assay semi-quantitatively measures phosphorylated 4E-BP1 (Thr36) in lysate samples.
Sample Type:	Cell Lysate, Tissue Lysate
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The antibody pair provided in this kit recognizes human and mouse 4E-BP1 phosphorylated at site Threonine-36.
Characteristics:	<ul style="list-style-type: none"><li>• Rapidly measure phosphorylated protein in lysates</li><li>• Screen numerous different cell lysates without performing a Western Blot analysis</li><li>• Minimal hands-on time, convenient, and non-radioactive material</li></ul>
Components:	<ul style="list-style-type: none"><li>• Pre-Coated 96-well Strip Microplate</li><li>• Wash Buffer</li><li>• Anti-Phospho Antibody</li></ul>

## Product Details

- HRP-Conjugated Secondary Antibody
- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

Material not included:	<ul style="list-style-type: none"><li>• Distilled or deionized water</li><li>• 100 mL and 1 liter graduated cylinders</li><li>• Tubes to prepare sample dilutions</li><li>• Protease and Phosphatase inhibitors</li><li>• Precision pipettes to deliver 2 µL to 1 mL volumes</li><li>• Adjustable 1-25 mL pipettes for reagent preparation</li><li>• Benchtop rocker or shaker</li><li>• Microplate reader capable of measuring absorbance at 450 nm</li></ul>
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## Target Details

Target:	eIF4EBP1 (EIF4EBP1)
Alternative Name:	4E-BP1 ( <a href="#">EIF4EBP1 Products</a> )
Gene ID:	1978
UniProt:	<a href="#">Q13541</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">PI3K-Akt Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">BCR Signaling</a>

## Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none"><li>1. Prepare all reagents and samples as instructed in the manual.</li><li>2. Add 100 µL of sample or positive control to each well.</li><li>3. Incubate 2.5 h at RT or O/N at 4 °C.</li><li>4. Add 100 µL of prepared primary antibody to each well.</li><li>5. Incubate 1 h at RT.</li><li>6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.</li><li>7. Incubate 1 h at RT.</li><li>8. Add 100 µL of TMB One-Step Substrate Reagent to each well.</li><li>9. Incubate 30 min at RT.</li></ol>

## Application Details

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- 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: -20 °C

Storage Comment: Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4 °C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 °C. Reconstituted Positive Control (Item K) should be stored at -70 °C.

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Expiry Date: 6 months