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## Datasheet for ABIN5526687 **eIF4EBP1 ELISA Kit**

### Overview

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

### Product Details

Purpose:	Human and Mouse Phospho-4E-BP1 (Thr36) and Total 4E-BP1 Cell-Based ELISA Cell-Based ELISA Kit. This assay semi-quantitatively measures 4E-BP1 phosphorylated at Threonine-36 as well as total 4E-BP1 in adherent cell lines.
Sample Type:	Adherent Cell Culture
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit recognizes Human and Mouse 4E-BP1 phosphorylated at site Threonine-36 as well as total 4E-BP1.
Characteristics:	<ul style="list-style-type: none"><li>• Rapidly measure phosphorylated protein in adherent cell lines</li><li>• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)</li><li>• No sample lysis is needed</li><li>• Compatible with a standard ELISA plate reader</li></ul>

## Product Details

Components:	<ul style="list-style-type: none"><li>• Uncoated 96-well Strip Microplate</li><li>• Wash Buffers</li><li>• Fixing Solution</li><li>• Quenching Buffer</li><li>• Blocking Buffer</li><li>• Anti-phospho antibody</li><li>• Anti-pan antibody</li><li>• HRP-Conjugated Secondary Antibody</li><li>• TMB One-Step Substrate</li><li>• Stop Solution</li></ul>
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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> , <a href="#">Q60876</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

Application Notes:	Optimal working dilution should be determined by the investigator.
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></ol>

## Application Details

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6. Add 100 µL of prepared 1X HRP-Streptavidin 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
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## Handling

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Storage:	-20 °C
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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
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