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Datasheet for ABIN4886044
EIF2B1 ELISA Kit

Overview

Quantity: 96 tests

Target: EIF2B1

Binding Specificity: pSer52, total

Reactivity: Human

Method Type: Sandwich ELISA

Application: ELISA

Product Details

Purpose: Human Phospho-EIF2A (S52) and Total EIF2A ELISA Kit. This assay semi-quantitatively measures phosphorylated EIF2A (Ser52) and Total EIF2A 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 eIF-2A phosphorylated at site Serine-52 and Total eIF-2a.

Characteristics:

- Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)
- Screen numerous different cell lysates without performing a Western Blot analysis
- Minimal hands-on time, convenient, and non-radioactive material

Components:

- Pre-Coated 96-well Strip Microplate
- Wash Buffer

Product Details

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

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• Protease and Phosphatase inhibitors• 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:	EIF2B1
Alternative Name:	eIF-2a (EIF2B1 Products)
Gene ID:	1965
UniProt:	P05198
Pathways:	Methionine Biosynthetic Process

Application Details

Sample Volume:	100 μ L
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 2.5 h at RT or O/N at 4 $^{\circ}$C.4. Add 100 μL of prepared primary antibody to each well.5. Incubate 1 h at RT.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.

Application Details

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: -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.

Expiry Date: 6 months