Datasheet for ABIN2748069

EIF2B1 ELISA Kit

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Overview

Quantity:	96 tests
Target:	EIF2B1
Binding Specificity:	pSer52
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Phospho-EIF2A (S52) ELISA Kit. This assay semi-quantitatively measures phophorylated EIF2A (Ser52) 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.
Characteristics:	• Rapidly measure phosphorylated protein in lysates • 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 • Anti-Phospho Antibody

Product Details

	• HRP-Conjugated Secondary Antibody • Assay Diluent • TMB One-Step Substrate • Stop Solution • Lysis Buffer • Positive Control Sample
Material not included:	• 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

Target Details

Target:	EIF2B1
Alternative Name:	eIF-2a (EIF2B1 Products)
Background:	Eukaryotic translation initiation factor 2A (eIF-2A) phosphorylated at Serine-52
Gene ID:	1965
UniProt:	P05198
Pathways:	Methionine Biosynthetic Process

Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	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 °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. 9. Incubate 30 min at RT.

Application Details

	10. Add 50 µL of Stop Solution to each well. 11. Read at 450 nm immediately.
Assay Procedure:	Prepare all reagents and samples as instructed in the manual. Add 100 µL of sample or positive control to each well. Incubate 2.5 h at RT or O/N at 4 °C. Add 100 µL of prepared primary antibody to each well. Incubate 1 h at RT. Add 100 µL of prepared 1X HRP-Streptavidin to each well. Incubate 1 h at RT. Add 100 µL of TMB One-Step Substrate Reagent to each well. Incubate 30 min at RT. Add 50 µL of Stop Solution to each well. 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