Datasheet for ABIN4881283

GSK3 alpha ELISA Kit

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Overview

Quantity:	96 tests
Target:	GSK3 alpha (GSK3a)
Binding Specificity:	pSer21
Reactivity:	Human, Mouse
Method Type:	Cell ELISA
Application:	ELISA

Product Details

Purpose:	Cell-Based Human/Mouse GSK-3a (S21) Phosphorylation ELISA Kit. Suitable for adherent whole cell lines.
Sample Type:	Cell Culture Cells
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The antibodies provided in this kit recognizes human and mouse GSK-3 alpha phosphorylated at Serine-21 and total GSK-3 alpha for comparison.
Characteristics:	• Site and signal pathway-specific • In vitro detection of adherent cell culture • No sample lysis needed • Compatible with a standard ELISA plate reader • Faster results than with ELISA • Adaptable for high-throughput screening and drug discovery

Product Details

Components:	• uncoated 96-well Microplate • Wash Buffer A • Wash Buffer B • Fixing Solution • Quenching Buffer • Blocking Buffer • Anti-phospho antibody • Anti-pan antibody • HRP-Conjugated Secondary Antibody • TMB One-Step Substrate • Stop Solution
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:	GSK3 alpha (GSK3a)
Alternative Name:	GSK-3a (GSK3a Products)
Gene ID:	2931
UniProt:	P49840
Pathways:	PI3K-Akt Signaling, WNT Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, cAMP Metabolic Process, Cellular Glucan Metabolic Process, Regulation of Muscle Cell Differentiation, Regulation of G-Protein Coupled Receptor Protein Signaling, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process, BCR Signaling, Warburg Effect

Application Details

Sample Volume:	100 µL
Plate:	Uncoated
Protocol:	1. Seed 10,000-30,000 cells into each well and incubate overnight.

Application Details

	2. Apply various treatment, inhibitors or activators according to manufacture's instructions. 3. Add 100 µL of Fixing Solution into each well and incubate for 20 min at RT with shaking. 4. Add 200 µL of prepared 1X Quenching Buffer and incubate 20 min at RT. 5. Add 200 µL of Blocking Solution and incubate for 1 h at 37 °C. 6. Add 50 µL of 1X anti-phospho-protein specific antibody or anti-pan-protein specific antibody to each well and incubate for 2 h at RT. 7. Add 50 µL of prepared 1X HRP-Anti-Rabbit or Mouse IgG and incubate for 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.
Restrictions:	For Research Use only

Handling

Storage:	-20 °C
Storage Comment:	The entire kit may be stored at -20°C for up to 6 months from the date of shipment. Avoid repeated freeze-thaw cycles.
Expiry Date:	6 months