Datasheet for ABIN2748576

PTK2B ELISA Kit

2 Images

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Overview

Quantity:	2 x 96 tests
Target:	PTK2B
Binding Specificity:	pTyr402
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Phospho-PYK2 (Y402) ELISA Kit. This assay semi-quantitatively measures phophorylated PYK2 (Tyr402) 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 PYK2 phosphorylated at Tyrosine-402.
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 • HRP-Conjugated Secondary Antibody

Product Details

	• 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:	PTK2B
Alternative Name:	PYK2 (PTK2B Products)
Background:	Protein tyrosine kinase 2 beta, PTK2B, CADTK, CAKB, FADK2, FAK2, PKB, PTK, PYK2, RAFTK
Gene ID:	2185
UniProt:	Q14289
Pathways:	EGFR Signaling Pathway, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis, Glycosaminoglycan Metabolic Process, Cellular Glucan Metabolic Process, Cell-Cell Junction Organization, Regulation of Cell Size, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, Positive Regulation of fat Cell Differentiation, VEGF Signaling

Application Details

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.

Application Details

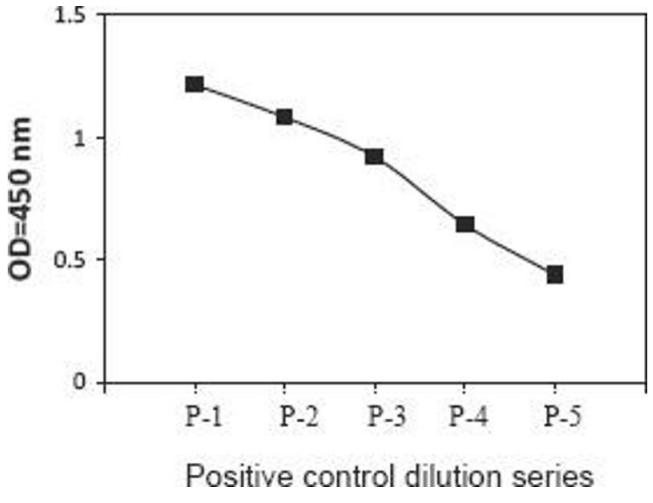
6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.
7. Incubate 1 h at RT.
8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50 µL of Stop Solution to each well.
11. Read at 450 nm immediately.

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

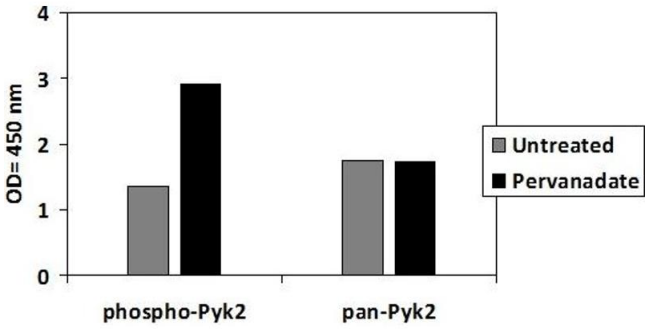
Storage:	-20 °C
Storage Comment:	Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item 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

Images



ELISA

Image 1. JURKAT cells were treated with Pervanadate at 37°C for 10 min. Cells were solubilzed at 4 x 107 cells/ml in Cell Lysate Buffer. Serial dilutions of lysates were analyzed in this ELISA.



ELISA

Image 2. JURKAT cells were untreated or treated with Pervanadate for 10 min. Cell lysates were analyzed using this phosphoELISA and Western Blot.