

Datasheet for ABIN2748576

**PTK2B ELISA Kit****2** Images[Go to Product page](#)

## 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 phosphorylated 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

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- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

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### 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

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

## Application Details

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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

6. Add 100  $\mu$ L of prepared 1X HRP-Streptavidin to each well.
7. Incubate 1 h at RT.
8. Add 100  $\mu$ L of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50  $\mu$ L 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  $\mu$ L of sample or positive control to each well. Incubate 2.5 h at RT or O/N at 4  $^{\circ}$ C. Add 100  $\mu$ L of prepared primary antibody to each well. Incubate 1 h at RT. Add 100  $\mu$ L of prepared 1X HRP-Streptavidin to each well. Incubate 1 h at RT. Add 100  $\mu$ L of TMB One-Step Substrate Reagent to each well. Incubate 30 min at RT. Add 50  $\mu$ L of Stop Solution to each well. Read at 450 nm immediately.

**Restrictions:** For Research Use only

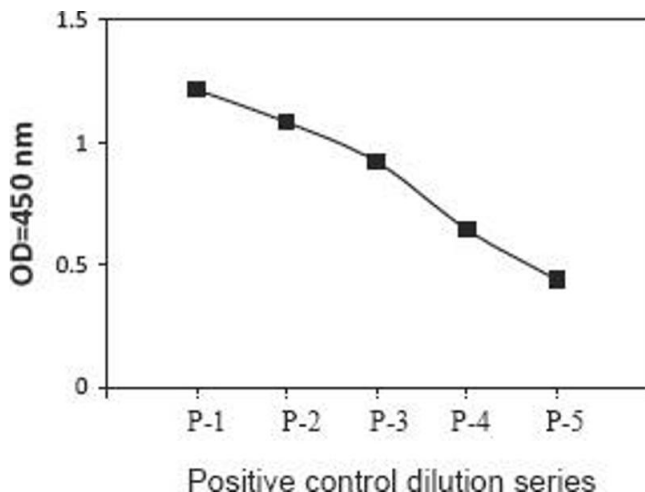
## Handling

**Storage:** -20  $^{\circ}$ C

**Storage Comment:** Upon receipt, the kit should be stored at -20  $^{\circ}$ 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  $^{\circ}$ C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20  $^{\circ}$ C. Reconstituted Positive Control (Item K) should be stored at -70  $^{\circ}$ C.

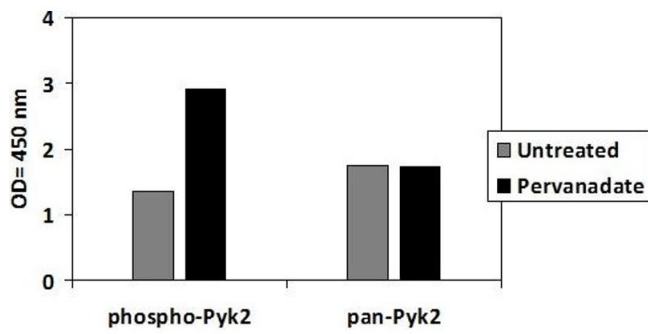
**Expiry Date:** 6 months

## Images



### ELISA

**Image 1.** JURKAT cells were treated with Pervanadate at 37 $^{\circ}$ C for 10 min. Cells were solubilized at 4 x 10<sup>7</sup> 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.