

[Go to Product page](#)

## Datasheet for ABIN5526753 **LKB1 ELISA Kit**

### Overview

Quantity:	96 tests
Target:	LKB1 (STK11)
Binding Specificity:	pSer428
Reactivity:	Human
Method Type:	Cell ELISA
Application:	ELISA

### Product Details

Purpose:	Cell-Based ELISA Kit. This assay semi-quantitatively measures LKB1 phosphorylated at Serine-428 as well as total LKB1 in adherent cell lines.
Sample Type:	Adherent Cell Culture
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit recognizes Human LKB1 phosphorylated at site Serine-428 as well as total LKB1.
Characteristics:	<ul style="list-style-type: none"><li>• Rapidly measure phosphorylated protein in adherent cell lines</li><li>• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)</li><li>• No sample lysis is needed</li><li>• Compatible with a standard ELISA plate reader</li></ul>
Components:	<ul style="list-style-type: none"><li>• Uncoated 96-well Strip Microplate</li><li>• Wash Buffers</li></ul>

## Product Details

- 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:	LKB1 (STK11)
Alternative Name:	LKB1 ( <a href="#">STK11 Products</a> )
Gene ID:	6794
UniProt:	<a href="#">Q15831</a>
Pathways:	<a href="#">AMPK Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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><li>6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.</li><li>7. Incubate 1 h at RT.</li></ol>

## Application Details

---

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:	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
--------------	----------