



**User's Manual**

# Phosphatidylinositol 4-phosphate ELISA Kit



DEIA-XYZ11



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

---

**Creative Diagnostics**

 **Address: 45-1 Ramsey Road, Shirley, NY 11967, USA**

 **Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)**  **Fax: 1-631-938-8221**

 **Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)**  **Web: [www.creative-diagnostics.com](http://www.creative-diagnostics.com)**

---

## PRODUCT INFORMATION

### Intended Use

The Phosphatidylinositol 4-phosphate ELISA Kit is designed to detect and quantify PI(4)P by means of a competitive ELISA format, eliminating the need for radioactivity and thin layer chromatography. The PI(4)P Mass ELISA directly detects PI(4)P over all other phosphonositides at relevant biological levels.

### General Description

The PI(4)P Mass assay is a competitive ELISA in which the signal is inversely proportional to the amount of PI(4)P measured. The PI(4)P extractions are added to the colored mixing plate with PI(4)P Grip. This mixture is then transferred to the PI(4)P Detection Plate for competitive binding. A peroxidase-linked secondary detector and colorimetric detection is used to detect the amount of PI(4)P Grip binding to the plate. The assay is sensitive to 0.7 pmol PI(4)P.

### Reagents And Materials Provided

1. Colored Mixing Plate: 1 plate
2. Acetate Plate Seal: 2 seals
3. PI(4)P Detector: 1 vial
4. PI(4)P Detection Plate: 1 plate
5. PI(4)P (diC16) Standard: 1 vial
6. Diluent: 1 bottle with lyophilized pellet
7. 10x PBS-T Buffer: 1 bottle of 20 mL
8. Secondary Detector: 1 vial of 300  $\mu$ L
9. TMB Substrate: 1 bottle of 12 mL
10. 1 N H<sub>2</sub>SO<sub>4</sub> Stop Solution: 1 bottle of 10 mL

### Materials Required But Not Supplied

1. Extracted PI(4)P samples
2. extractions: Trichloroacetic Acid, EDTA, Methanol, Chloroform, and 12 N HCl
3. Absorbance microtiter plate reader capable of reading at 450 nm.

### Storage

The kit comes in two parts with different storage requirements. Upon receipt store Kit Part 1 at 4°C and Kit Part 2 at -20°C. Store prepared reagents as indicated in the protocol.

### Detection Range

50-0.7 pmol PI(4)P