

Datasheet for ABIN4993626

**PI16 ELISA Kit****1** Image[Go to Product page](#)

## Overview

Quantity:	96 tests
Target:	PI16
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

## Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PI16 in Mouse serum, plasma and other biological fluids
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes natural and recombinant Mouse PI16. No significant cross-reactivity or interference between Mouse PI16 and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross-reactivity detection between Mouse PI16 and all the analogues.
Sensitivity:	37.5 pg/mL
Components:	Micro ELISA Plate Reference Standard

## Product Details

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Concentrated Biotinylated Detection Ab  
Concentrated HRP Conjugate  
Reference Standard & Sample Diluent  
Biotinylated Detection Ab Diluent  
HRP Conjugate Diluent  
Concentrated Wash Buffer (25×)  
Substrate Reagent  
Stop Solution  
Plate Sealer  
Product Description  
Certificate of Analysis

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Material not included:

- Microplate reader with 450nm wavelength filter
- High-precision transfer pipette, EP tubes and disposable pipette tips
- 37°C Incubator**
- Deionized or distilled water
- Absorbent paper
- Loading slot for Wash Buffer

## Target Details

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Target: PI16

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Abstract: [PI16 Products](#)

## Application Details

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Comment:

Information on standard material:

The formulation of the standard is 0.01 M PBS. The standard contains additives (1 % BSA).

Information on reagents:

Reagents include 1 M  $\text{SO}_2$ . Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials are not used.

Information on antibodies:

The provided antibodies and their host vary in different kits. All antibodies are affinity purified

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest

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## Application Details

protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.

Sample Volume: 100 µL

Plate: Pre-coated

Protocol: This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to PI16. Standards or samples are added to the appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for PI16 and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain PI16, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm  $\pm$  2 nm. The OD value is proportional to the concentration of PI16. You can calculate the concentration of PI16 in the samples by comparing the OD of the samples to the standard curve. 6th Edition, revised in June, 2015 [www.elabscience.com](http://www.elabscience.com) 4

Restrictions: For Research Use only

## Handling

Handling Advice: All the reagents in the kit should be stored according to the labels on vials. Unused wells should be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal. Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light should be avoided in the process of incubation and storage. All the taps of reagents should be tightened to prevent evaporation and microbial contamination. If not to store reagents according to above suggestions, erroneous results may occur.

Storage: 4 °C/-20 °C

Storage Comment: The unopened kit can be stored at 4°C *for 1 month. If the kit is not used within 1 month, store the items separately according to the conditions since the kit is received.*

ELISA

**Image 1.** Typical standard curve

