



Pig C-reactive protein (CRP) ELISA kit (0.156-10 ng/mL)

Cat. No.:	OB0625WXX-454
Assay Type:	Quantitative ELISA
Target Species:	Pig
Assay Target:	CRP
Size:	48T; 96T

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

Product Overview

Description

Pig C-reactive protein (CRP) ELISA kit (0.156-10 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of CRP in pig with a range of 0.156-10 ng/mL and a specificity of <0.055 ng/mL.

Assay Principle

The microtiter plate provided in this kit is pre-coated with an antibody specific to the target antigen. Standards or samples are then added to the appropriate microtiter plate wells along with a biotin-conjugated antibody preparation specific to the target antigen, and avidin conjugated to horseradish peroxidase (HRP) is then added to each microtiter plate well and incubated. TMB substrate solution is then added to each well. Only wells containing the target antigen, biotin-conjugated antibody, and enzyme-conjugated avidin will show a color change. The enzyme-substrate reaction is terminated by the addition of sulfuric acid solution, and the color change is measured spectrophotometrically at $450 \text{ nm} \pm 2 \text{ nm}$. The concentration of the target antigen in the sample can then be determined by comparing the OD of the sample to a standard curve.

Background

CRP is an acute-phase protein of hepatic origin, whose circulating concentrations rise in response to inflammation. It is considered a key plasma protein that can bind to Leptin, and its potential role in regulating leptin's function in obesity is crucial.

Synonyms

Pentraxin-related; pentraxin 1; C-RP; PTX1

Formula Weight

24,925 Da



Applications

Pig C-reactive protein (CRP) ELISA kit (0.156-10 ng/mL) is used to quantify CRP in serum, plasma, tissue homogenates, cell culture supernates, and other biological fluid samples of pig, providing data to support a wide range of studies.

Research Area

Inflammatory reaction; Obesity research

Specification

Sample Type	Serum; Plasma; Tissue homogenates; Cell culture supernates; Other biological fluids
Detection Range	0.156-10 ng/mL
Sensitivity	<0.055 ng/mL
Precision (Intra-assay)	CV≤4.6%
Precision (Inter-assay)	CV≤8.2%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.