



Chicken C-reactive protein (CRP) ELISA kit (0.625-40 ng/mL)

Cat. No.:	OB0625WXX-434
Assay Type:	Quantitative sandwich ELISA
Target Species:	Chicken
Assay Target:	CRP
Size:	48T; 96T

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

Product Overview

Description

Chicken C-reactive protein (CRP) ELISA kit (0.625-40 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of CRP in chicken with a range of 0.625-40 ng/mL and a specificity of 0.211 ng/ mL.

Assay Principle

The microtiter plates in this kit are pre-coated with an antibody specific for C RP. Standards or samples are then added to the appropriate microtiter plate well s along with a biotin-conjugated antibody preparation specific for CRP. Avidin c onjugated to horseradish peroxidase (HRP) is then added to each microplate well and incubated. Upon addition of the TMB substrate solution, only the wells conta ining CRP, biotin-conjugated antibody, and enzyme-conjugated avidin will show a color change. The enzyme-substrate reaction is terminated by the addition of sul furic acid solution and the color change is then measured spectrophotometrically at 450 nm \pm 10 nm. The OD of the sample is then compared to a standard curve to determine the concentration of CRP in the sample.

Background

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

Synonyms

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

Formula Weight

25,660 Da

**Applications**

Chicken C-reactive protein (CRP) ELISA kit (0.625-40 ng/mL) is used to quantify CRP in serum, plasma, and other biological fluid samples of chicken, providing data to support a wide range of studies.

Research Area

Inflammatory reaction; Obesity research

Specification

Sample Type

Serum; Plasma; Other biological fluids

Detection Range

0.625-40 ng/mL

Sensitivity

0.211 ng/mL

Precision (Intra-assay)

CV<10%

Precision (Inter-assay)

CV<12%

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 4°C (TMB substrate, wash buffer, stop solution) and -20°C (other reagents).