



## Human C-reactive protein (CRP) ELISA kit (31.25-2000 pg/mL)

<b>Cat. No.:</b>	OB0625WXX-442
<b>Assay Type:</b>	Quantitative sandwich ELISA
<b>Target Species:</b>	Human
<b>Assay Target:</b>	CRP
<b>Size:</b>	48T; 96T

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

### Product Overview

<b>Description</b>	Human C-reactive protein (CRP) ELISA kit (31.25-2000 pg/mL) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of CRP in human with a range of 31.25-2000 pg/mL and a specificity of 18.75 pg/ mL.
<b>Assay Principle</b>	The anti-CRP antibody is pre-coated onto a 96-well plate. The biotin-conjugated anti-CRP antibody is then used as the detection antibody. Standards, assay samples, and biotin-conjugated detection antibody are then added to the wells and was hed with buffer. HRP-streptavidin is added, and the unbound conjugate is washed away with washing solution. TMB substrate is used to show the HRP enzyme reaction. TMB produces a blue product catalyzed by HRP, which turns yellow upon addition of an acidic termination solution. The density of the yellow color is proportional to the amount of CRP sample captured in the plate. The concentration of CRP can be calculated by reading the absorbance at 450nm with a microplate reader.
<b>Background</b>	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.
<b>Synonyms</b>	Pentraxin-related; pentraxin 1; C-RP; PTX1
<b>Formula Weight</b>	10,415 Da

**Applications**

Human C-reactive protein (CRP) ELISA kit (31.25-2000 pg/mL) is used to quantify CRP in serum, plasma, urine, cell culture supernatant, cell or tissue lysate, and other liquid samples of human, providing data to support a wide range of studies.

**Research Area**

Inflammatory reaction; Obesity research

## Specification

**Sample Type**

Serum; Plasma; Urine; Cell culture supernatant; Cell or tissue lysate; Other liquid samples

**Detection Range**

31.25-2000 pg/mL

**Sensitivity**

18.75 pg/mL

**Precision (Intra-assay)**

CV<8%

**Precision (Inter-assay)**

CV<10%

**Cross-reactivity**

No significant cross-reactivity or interference was observed.

**Storage**

Store at -20°C (microplate, standard) and 2-8°C (other reagents).