

Human C-reactive protein Antibody (8B11) [Biotin], mAb, Mouse

PRODUCT INFORMATION

Description

C-reactive protein (CRP) is an annular, pentameric protein found in blood plasma, in which the levels rise in response to inflammation. It is an acute-phase protein synthesized by the liver that increases following interleukin-6 secretion by macrophages and T cells. CRP binds to the phosphocholine expressed on the surface of dead or dying cells and some bacteria. This activates the complement system, promoting phagocytosis by macrophages, which clears necrotic and apoptotic cells and bacteria.

Specificity

The product is specific for human CRP. This antibody binds with human CRP in ELISA and Western blot assay. The antibody is recommended as a detection antibody in a Sandwich ELISA assay with capture antibody GenScript, A01919-40, Human C-reactive protein Antibody (39E5), mAb, Mouse.

Concentration

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 1% BSA and 0.02% sodium azide. (It may be customized for bulk orders.)

Note

GenScript can customize this product per the customer's request including product size, buffer components, etc.

Reconstitution

Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

Storage

The lyophilized product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.

Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentration may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA detection: 0.02-0.2 µg/ml

Western blot: 1 µg/ml

Other applications: user-optimized

Cat. No.: A01920-40

Host: Mouse

Size: 40 µg

Ig Subclass: IgG1,κ

Clone: 8B11

Immunogen: Human CRP

SwissProt: P02741

Entrez Gene ID: 1401

Purification: Protein A affinity column

Conjugation: Biotin

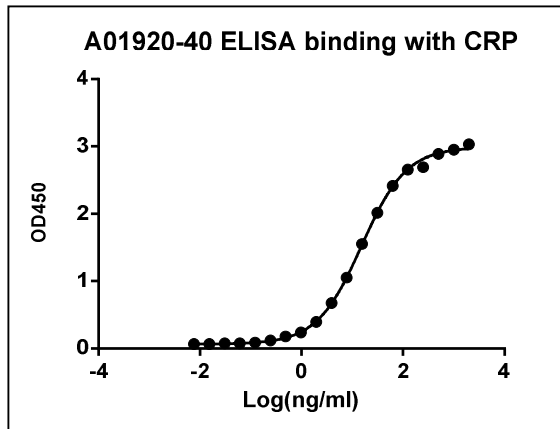
Version: 08/08/2017

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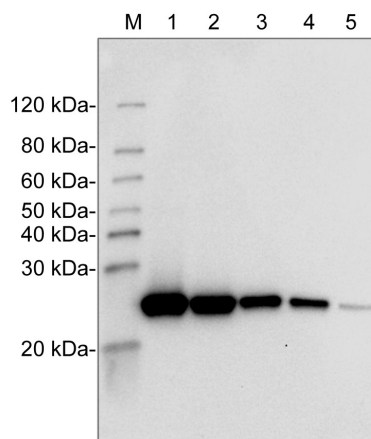
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Example



ELISA binding of **Human CRP Antibody (8B11) [Biotin], mAb, Mouse** (GenScript, A01920-40) with Human CRP.
Coating antigen: Human CRP, 1 µg/ml,
Human CRP antibody dilution start from 2000 ng/ml,
EC₅₀=15.32 ng/ml.



Western blot analysis of **Human CRP Antibody (8B11) [Biotin], mAb, Mouse** (GenScript, A01920-40) with Human CRP.

Loading:

Lane 1 : Human CRP (100 ng)

Lane 2 : Human CRP (50 ng)

Lane 3 : Human CRP (10 ng)

Lane 4 : Human CRP (5 ng)

Lane 5 : Human CRP (1 ng)

Primary Antibody:

Human CRP Antibody (8B11) [Biotin], mAb, Mouse (GenScript, A01920-40) 1µg/ml

Secondary Antibody:

Streptavidin-HRP (Genscript, M00091, 15L000972) 0.2µg/ml

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