



ORDERING INFORMATION

Catalog Number: AF1829

Lot Number: JTI01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse CRP

Immunogen: NS0-derived rmCRP

Ig Type: goat IgG

Applications: Direct ELISA
Western blot
Immunohistochemistry

Anti-mouse C-Reactive Protein Antibody

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse C-Reactive Protein (rmCRP). Mouse CRP specific IgG was purified by Mouse CRP affinity chromatography. CRP is a secreted protein that belongs to the pentaxin superfamily. It circulates as a non-covalent homo-pentamer. Whereas human CRP is the major acute-phase protein, mouse CRP plasma concentrations remain relatively constant in response to tissue damage.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize mouse CRP in the applications listed below.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse CRP. The detection limit for rmCRP is approximately 0.3 ng/well. In this format, this antibody shows approximately 15% cross-reactivity with rhCRP and rrCRP.

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse CRP. The detection limit for rmCRP is approximately 1 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect CRP in cells and tissues. The working dilution is 2 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Optimal dilutions should be determined by each laboratory for each application.