



Monoclonal Anti-mouse C-Reactive Protein/CRP Antibody

ORDERING INFORMATION

Catalog Number: MAB1829

Clone: 267917

Lot Number: CBNP01

Size: 500 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 class: rat IgG_{2A}

Recommended Application:
ELISA capture

Background

CRP is a secreted protein that belongs to the pentraxin family. It circulates as a non-covalent homo-pentamer. CRP binds to several ligands and functions to initiate activation of the complement cascade, phagocytosis and inflammatory responses.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse/rat immunized with purified, NS0-derived, recombinant mouse CRP (rmCRP; aa 1 - 225; Accession # P14847). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

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 500 µg/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 detects rmCRP in direct ELISAs.

Application

ELISA capture - This product can be used as a capture reagent in a mouse CRP sandwich immunoassay in combination with biotinylated mouse CRP detection antibody (Cat. # BAF1829) and recombinant mouse CRP (Cat. # 1829-CR) as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at www.RnDSystems.com/go/MAPELISA.

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