

Datasheet for 209-1132S**CRP Antibody****Overview**

Description:	Anti-Human CRP (GOAT) Antibody - 209-1132S
Item No.:	209-1132S
Size:	25 µL
Applications:	Dot Blot, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	CRP (C-Reactive Protein) belongs to the pentaxin family. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. It promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli. CRP can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells. Diseases associated with CRP include Acute Pancreatitis and Appendicitis. Anti-CRP Antibody is ideal for researchers interested in cAMP Dependent PKA, IL6 signaling, calcium ion binding, and cholesterol binding.
Synonyms:	goat anti-CRP Antibody, C reactive protein pentraxin related antibody, CRP antibody, MGC88244 antibody, PTX 1 antibody, PTX1 antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CRP
Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Capsular Reactive Protein (CRP) [Human Serum]
Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Capsular Reactive Protein (CRP) [Human Serum]. Cross reactivity against Capsular Reactive Protein (CRP) from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P02741 • NCBI - NP_000558.2 • GenelD - 1401

Application Details

Tested Applications:	Dot Blot, WB
Application Note:	Anti-CRP Antibody has been tested by dot blot and western blot and is suitable for ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:4,000 - 1:40,000
IHC:	1:1,000-1:5,000
WB:	1:2,000-1:10,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

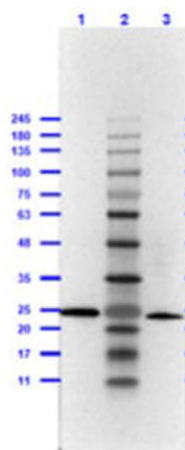
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot Results of Goat Anti-Human CRP Antibody.
 Lane 1: Rec Human C Reactive Protein - Reduced [0.02µg].
 Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500).
 Lane 3: Rec Human C Reactive Protein - Non-Reduced [0.02µg].
 Primary Antibody: Goat Anti-Hu CRP Antibody at 1:1000 overnight at 2-8°C.
 Secondary Antibody: Rabbit Anti-Goat IgG HRP (p/n 605-4302) at 1:40,000 for 30 mins at RT.
 Blocking: Universal BlockOut Buffer (p/n MB-073) for 1hr at RT.
 Predicted MW: ~24kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.