

ARG83493 Porcine C Reactive Protein ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG83493 Porcine C Reactive Protein ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine C Reactive Protein in Plasma and Serum
Tested Reactivity	Pig
Tested Application	ELISA
Target Name	C Reactive Protein
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	3 ng/ml
Sample Type	Plasma and Serum
Standard Range	6.25 - 200 ng/ml
Sample Volume	100 µl
Alternate Names	CRP; C-Reactive Protein; PTX1; C-Reactive Protein, Pentraxin-Related; Pentraxin 1

Application Instructions

Assay Time	1.5 hour
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Properties

Form	96 well
Storage instruction	Store the kit at 4°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CRP
Gene Full Name	C-reactive protein, pentraxin-related
Background	The protein encoded by this gene belongs to the pentraxin family which also includes serum amyloid P component protein and pentraxin 3. Pentraxins are involved in complement activation and amplification via communication with complement initiation pattern recognition molecules, but also complement regulation via recruitment of complement regulators. The encoded protein has a calcium dependent ligand binding domain with a distinctive flattened beta-jellyroll structure. It exists in two forms as either a pentamer in circulation or as a nonsoluble monomer in tissues. 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. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli. Elevated expression of the encoded

protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection.

Function

Displays several functions associated with host defense: it promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. Can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells.

PTM

Disulfide bond, Pyrrolidone carboxylic acid

Cellular Localization

Secreted