

Datasheet for ABIN964610 anti-CRASP-1 antibody

2 Images



### Overview

Quantity:	100 µg
Target:	CRASP-1
Reactivity:	Borrelia burgdorferi
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB)

### Product Details

Purpose:	CRASP-1 Antibody
Immunogen:	Immunogen: MBP-fusion protein corresponding to Borrelia burgdorferi CRASP-1 protein. Immunogen Type: Recombinant Protein
lsotype:	lgG
Cross-Reactivity (Details):	This antibody is specific for Borrelia burgdorferi CRASP-1 protein.
Characteristics:	Synonyms: rabbit anti-CRASP-1 Antibody, Borrelia burgdorferi CRASP-1, CRASP1, CRASP 1, Complement regulator acquiring protein 1
Purification:	This product was Protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography.

### Target Details

Target:	CRASP-1
Alternative Name:	CRASP1

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## Target Details

Background:	Background: CRASP-1, or Complement Regulator-Acquiring Surface Protein 1, is a
	multifunctional protein of Lyme disease-causing B. burgdorferi that binds to several human
	extracellular matrix proteins and plasminogen, including factor H (resulting in inhibition of
	complement activation in mammals) and Human Bone Morphogenic Protein 2. These
	interactions may contribute to adhesion, bacterial colonization, and organ tropism and may
	allow dissemination of B. burgdorferi in the host. B. burgdorferi spirochetes express up to 5
	complement regulator-acquiring surface proteins. Multiple copies of sequences analagous to
	CRASP-1 genes have been detected in Borrelia plasmids. Borrelia species contain a large
	number of plasmids, of linear and circular, some of which appear to repeat sequences or
	contain fragments of other genes. These regions may serve as potentially usable information
	for the survival of Borrelia in its multiple environments during its life cycle. In addition, the
	sequence for CRASP-1 contains a repeated sequence folded into a stable stem loop structure
	typical of RNA genes.
Gene ID:	1194383
NCBI Accession:	WP_010890397
UniProt:	Q66ZC1

## Application Details

Application Notes:	Application Note: This protein-A purified antibody has been tested for use in ELISA and Western
	blotting. Specific conditions for reactivity should be optimized by the user. Expect a band
	approximately 26.9 kDa in size corresponding to Borrelia burgdorferi CRASP-1 protein by
	Western blotting in the appropriate cell lysate or extract.
	Western Blot Dilution: 1:1,000
	ELISA Dilution: >1:5,000
	Other: User Optimized
Restrictions:	For Research Use only

# Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL

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Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

#### Images



#### Western Blotting

**Image 1.** Western blot showing detection of 0.1  $\mu$ g of recombinant CRASP-1 protein. Lane 1: Molecular weight markers. Lane 2: MBP-CRASP-1 fusion protein (arrow; expected MW = 69.3 kDa). Lane 3: MBP alone. Protein was run on a 4-20% gel, then transferred to 0.45  $\mu$ m nitrocellulose. After blocking with 1% BSA-TTBS, diluted to 1X) overnight at 4°C, primary antibody was used at 1:1000 at room temperature for 30 min. HRP-conjugated Goat-Anti-Rabbit secondary antibody was used at 1:40,000 in ABIN925618 blocking buffer and imaged on the MP 4000 imaging system (Bio-Rad).



#### Western Blotting

**Image 2.** Western Blot results of Rabbit Anti-Crasp-1 Antibody. Lane 1: Crasp 1 protein. Lane 2: MBP. Load: 0.05  $\mu$ L. Primary Antibody: Rabbit Anti-Crasp-1 Antibody at 1.0mg/mL overnight at 4°C. Secondary Antibody: Goat anti-Rabbit (p/m 611-101-122) at 1:70,000 for 30 min at RT. Blocking: BlockOut Buffer for 30min at RT. Expect: ~63.9kDa.

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