



Datasheet for ABIN5596701
anti-CRISPR-Cas9 (C-Term) antibody



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3 Images

Overview

Quantity:	100 µg
Target:	CRISPR-Cas9
Binding Specificity:	C-Term
Reactivity:	Streptococcus pyogenes
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: Cas-9 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal of Streptococcus pyogenes Cas-9 protein. Immunogen Type: Peptide
Isotype:	IgG
Purification:	Anti-Cas9 antibody is directed against Streptococcus pyogenes Cas-9. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

Target Details

Target:	CRISPR-Cas9
Alternative Name:	Cas 9
Background:	Synonyms: CRISPR, CRISPR-associated endonuclease Cas9/Csn1, SpyCas9, csn1, Cas-9

Target Details

Antibody

Background: The Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) and CRISPR Associated (Cas) system was discovered in bacteria as a defense against foreign DNA, even being believed to act as a sort of prokaryotic immune system. The Cas9 protein is becoming a useful tool in the field of genomic editing for its ability to induce site-directed double strand breaks in DNA. It can cleave almost any sequence complementary to the guide RNA and has recently been used for modifying the genome of human embryos for the first time.

Gene Name: cas9

Gene ID: 901176

UniProt: [Q99ZW2](#)

Application Details

Application Notes: Application Note: This affinity purified antibody has been tested for use in ELISA, Immunofluorescence, and Western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band ~158 kDa in size corresponding to Cas-9 protein by western blotting in the appropriate cell lysate or extract.

Western Blot Dilution: 1:1000

ELISA Dilution: 1:25,000-1:30,000

IF Microscopy Dilution: 1 µg/mL

Comment: User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

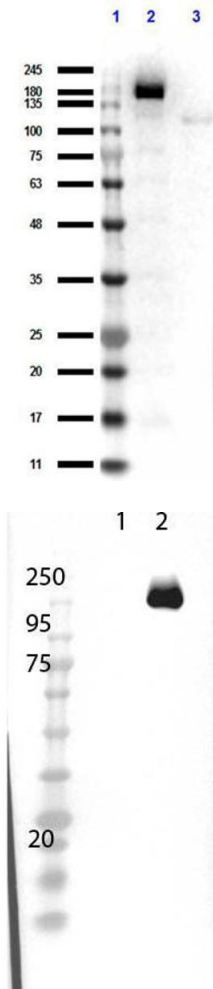
Storage: 4 °C, -20 °C

Handling

Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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

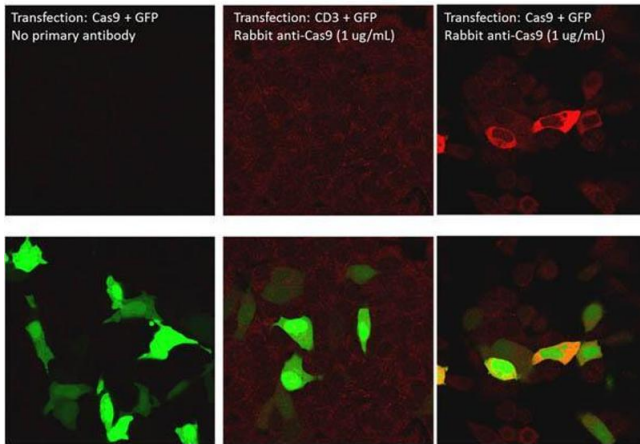


Western Blotting

Image 1. Western Blot results of Rabbit Anti-Cas 9 Antibody. Lane 1: Opal Prestained Molecular Weight Ladder . Lane 2: HEK/293 Cas9 Over Expressing WCL. Lane 3: HEK/293 non Transfected WCL. Load: 10ul. Primary Antibody: Rabbit Anti-Cas 9 Antibody at 1µg/mL overnight at 4°C. Secondary Antibody: Goat anti-Rabbit HRP at 1:70,000 for 30min at RT. Blocking: BlockOut for 30 min at RT.

Western Blotting

Image 2. Western Blot of Rabbit Anti-Cas9 Antibody. Lane 1: 293T non transfected cell lysate. Lane 2: 293T Cas9 over expressed cell lysate. Load: 15µg per lane. Primary Antibody cas9 used at 1µg/mL using ABIN925618 overnight at 4°C. Secondary Antibody: goat anti-rabbit HRP at 1:40,000 for 30 min at room temp. Expect: 158kDa.



Immunofluorescence

Image 3. Immunofluorescence of Rabbit Anti-Cas9 Antibody. Cells: HeLa cells transfected with GFP+Cas9 or GFP+CD-3. Fixation: Formaldehyde fixed, permeabilized Triton X-100. Primary: Anti-Cas9 used at 1 μ g/mL. Secondary: Donkey anti-Rabbit at 1 μ g/mL, staining seen in red. Bottom images show GFP stain overlay.