

# **GenCrispr Cas9 Antibody**, pAb, Rabbit PRODUCT INFORMATION

## Description

CRISPR/Cas9 system is one powerful gene editing tool to specifically modify target genes. Cas9 nuclease is an RNA-guided endonuclease that can catalyze cleavage of double stranded DNA. The GenCrispr Cas9 Antibody is a rabbit polyclonal antibody with Streptococcus pyogene (S. pyogenes) Cas9 protein as the immunization antigen. This antibody is used to detect the expression level of CRISPR/Cas9 in target cells.

Cat. No.: A01885-100

Host: Rabbit Size:100 μl

Ig Subclass: Rabbit IgG
Immunogen: Recombinant
Streptococcus pyogene (S.
pyogenes) Cas9 protein.
Purification: Immunoaffinity

chromatography

Conjugation: Unconjugated

Version: 08/17/2017

## Specificity

This antibody recognizes Streptococcus pyogene (S. pyogenes) Cas9 protein (UniProt Accession: Q99ZW2). Other species have not been not tested.

## **Storage**

The GenCrispr Cas9 Antibody is liquid in PBS, pH 7.4, containing 50% glycerol. The recommended storage temperature is -20°C.

## **Applications**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended as starting points for this product.

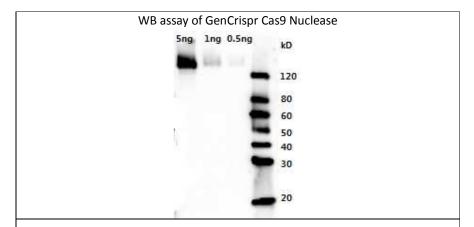
WB: 1:1000 - 1:5000.

Other applications: user-optimized.

Toll-Free: 1-877-436-7274 Tel: 1-732-885-9188 Fax: 1-732-210-0262 Email: product@genscript.com Web: www.genscript.com



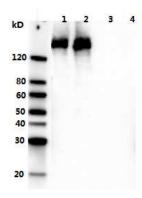
## Example



**High Sensitivity:** GenCrispr Cas9 antibody can detect as low as 0.5 ng GenCrispr Cas9 nuclease.

GenCrispr Cas9 protein (GenScript, Cat.No. Z03386) was loaded on a gel as indicated and then detected by Western blot using GenCrispr Cas9 antibody (1:3000 dilution) and Goat Anti-Rabbit IgG (H&L) [HRP],pAb (GenScript, Cat No. A10169) (1: 10000 dilution).





High Specificity: Only one specific target band is detected by GenCrispr Cas9 antibody in HEK 293T cell lysate transfected with Cas9 expression vectors. HEK 293T cells were transfected with or without Cas9 expression vectors. After 24hrs, cells were lysed for Western blot assay. No proteins were detected in untransfected HEK 293T cells, and there was only one target band to be detected in transfected cells. Lane 1-2: HEK 293T cell lysate transfected with CRPSPR-Cas9 vectors, 0.5  $\mu l$  and 1  $\mu l$  respectively.

Lane 3-4: Negative control (un-transfected HEK 293T cell lysate), 0.5  $\mu$ l and 1  $\mu$ l respectively.

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