

CRISPR-Cas9 SA Antibody

Rabbit mAb Catalog # AP91281

Product Information

Application WB, IHC, IF, FC, ICC, IP, IHF

Primary Accession J7RUA5
Clonality Monoclonal

Other Names Cas9; CRISPR-associated endonuclease Cas9/Csn1; CRISPR-Cas9/Csn1; csn1;

SpyCas9;

IsotypeRabbit IgGHostRabbitCalculated MW123949

Additional Information

Dilution WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:30 FC 1:50

Purification Affinity-chromatography

Immunogen Recombinant fragment derived from Staphylococcus aureus

Description The CRISPR associated protein 9 (Cas9) is an RNA-guided DNA nuclease and

part of the Streptococcus pyogenes CRISPR antiviral immunity system that provides adaptive immunity against extra chromosomal genetic material. CRISPR/Cas9 genome editing tools have been used in many organisms,

including mouse and human cells.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

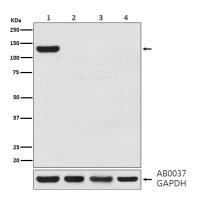
Protein Information

Name cas9 {ECO:0000255 | HAMAP-Rule:MF_01480}

Function CRISPR (clustered regularly interspaced short palindromic repeat) is an

adaptive immune system that provides protection against mobile genetic elements (viruses, transposable elements and conjugative plasmids). CRISPR clusters contain spacers, sequences complementary to antecedent mobile elements, and target invading nucleic acids. CRISPR clusters are transcribed and processed into CRISPR RNA (crRNA). In type II CRISPR systems correct processing of pre-crRNA requires a trans- encoded small RNA (tracrRNA), endogenous ribonuclease 3 (rnc) and this protein. The tracrRNA serves as a guide for ribonuclease 3-aided processing of pre-crRNA. Subsequently Cas9/crRNA/tracrRNA endonucleolytically cleaves linear or circular dsDNA target complementary to the spacer; Cas9 is inactive in the absence of the 2 guide RNAs (gRNA). Cas9 recognizes the protospacer adjacent motif (PAM) in the CRISPR repeat sequences to help distinguish self versus nonself, as targets within the bacterial CRISPR locus do not have PAMs. PAM recognition

Images



Western blot analysis of CRISPR-Cas9 SA expression in (1) 293T cell lysate transfected with CRISPR-Cas9 SA; (2) 293T cell lysate; (3) 3T3 cell lysate; (4) PC12 cell lysate.

Image not found: 202311/AP91281-IF.jpg

Immunofluorescent analysis of 293T cells transfected with CRISPR-Cas9 SA, using CRISPR-Cas9 SA Antibody .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.