



[Go to Product page](#)

Datasheet for ABIN5557542  
**anti-CRISPR-Cas9 antibody**

1 Image

### Overview

Quantity:	100 µL
Target:	CRISPR-Cas9
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	Recombinant fragment corresponding to Streptococcus pyogenes CRISPR-Cas9 (100-200aa)
Clone:	1E8
Isotype:	IgM
Cross-Reactivity:	Human
Purification:	Purified by Protein A.

### Target Details

Target:	CRISPR-Cas9
Background:	Synonyms: CRISPR, Cas9, CRISPR-associated endonuclease Cas9/Csn1, SpyCas9, SpCas9, csn1 Background: CRISPR (clustered regularly interspaced short palindromic repeat) is an adaptive immune system that provides protection against mobile genetic elements (viruses,

## Target Details

---

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) (Probable). 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. The target strand not complementary to crRNA is first cut endonucleolytically, then trimmed by 3'-5' exonucleolytically. DNA-binding requires protein and both RNA species. Cas9 probably recognizes a short motif in the CRISPR repeat sequences (the PAM or protospacer adjacent motif) to help distinguish self versus nonself.

---

Gene ID: 901176

UniProt: [Q99ZW2](#)

## Application Details

---

Application Notes: WB 1:500-2000

Restrictions: For Research Use only

## Handling

---

Format: Liquid

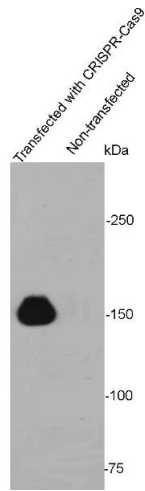
Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS ( pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months



### Western Blotting

**Image 1.** Lane 1: 293T cells transfected with CRISPR9-Cas9, Lane 2: untransfected 293T cell lysate probed with CRISPR-Cas9 (1E8) Monoclonal Antibody, Unconjugated at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.