

Anti-CRISPR-associated endonuclease Cas9/Csn1 antibody

Catalog: PHY1271S

Product Information

Description:	Rabbit polyclonal antibody
Background:	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) (PubMed:21455174). Cas9 only stabilizes the pre-crRNA:tracrRNA interaction and has no catalytic function in RNA processing (PubMed:24270795). 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).
Synonyms:	Cas9, SpCas9, SpyCas9
Immunogen:	Recombinant protein of Cas9 (102-467 aa).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum
Reconstitution:	Reconstitution with 150 µl of sterile water. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
Stability &Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	158 kDa, 43 kDa (Recombinant protein)

Research Use Only

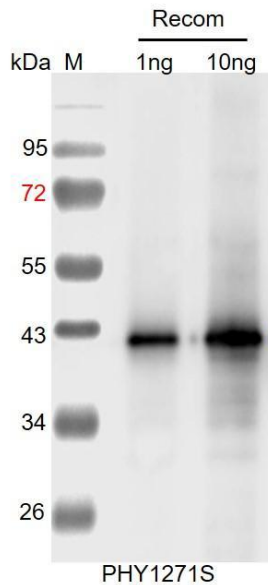
Confirmed Reactivity:

Species Independent

Predicted Reactivity:

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Recom: 1 ng and 10 ng recombinant protein of Cas9, respectively.

Electrophoresis: 15% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L(HRP) (Cat# PHY6000)

Detection: using chemiluminescence substrate and image were captured with CCD camera.