AC1 Antibody

PACO34286

Product Information

Size:

50ug

Reactivity:

African cassava mosaic virus

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA

Recommended dilutions:

Protein Background:

Essential for the replication of viral ssDNA. The closed circular ssDNA genome is first converted to a superhelical dsDNA. Rep binds a specific region at the genome origin of replication. It introduces an endonucleolytic nick within the conserved sequence 5'-TAATATTAC-3' in the intergenic region of the genome present in all geminiviruses, thereby initiating the rolling circle replication (RCR). Following cleavage, binds covalently to the 5'-phosphate of DNA as a tyrosyl ester. The cleavage gives rise to a free 3'-OH that serves as a primer for the cellular DNA polymerase. The polymerase synthesizes the (+) strand DNA by rolling circle mechanism. After one round of replication, a Rep-catalyzed nucleotidyl transfer reaction releases a circular single-stranded virus genome, thereby terminating the replication. Displays origin-specific DNA cleavage, nucleotidyl transferase, ATPase and helicase activities.

Gene ID:

AC1

Uniprot

P14982

Synonyms:

Replication-associated protein (Rep) (EC 2.7.7. -) (EC 3.1.21. -) (40.4 kDa protein) (Protein AC1) (Protein AL1)

Immunogen:

Recombinant African cassava mosaic virus Replication-associated protein (1-358AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images

N/A N/A

