abcam

Product datasheet

Recombinant RNA directed RNA polymerase L protein (His tag) ab239435

1 Image

Description

Product name	Recombinant RNA directed RNA polymerase L protein (His tag)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q8B0H0
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Sequence	ICIANHIDYEKWNNHQRKLSNGPVFRVMGQFLGYPSLIERT HEFFEKSLI YYNGRPDLMRVHNNTLVNSTSQRVCWQGQEGGLEGLRQ KGWSILNLLVIQ REAKIRNTAVKVLAQGDNQVICTQYKTKKSRNVVELQSAL NQMVSNNEKI MTAIKIGTGKLGLLINDDETMQSADYLNYGKIPIFRG
Predicted molecular weight	25 kDa including tags
Amino acids	598 to 784
Tags	His tag N-Terminus
Additional sequence information	Vesicular stomatitis Indiana virus (strain 94GUB Central America) (VSIV). RdRp catalytic domain.

Specifications

Our **Abpromise guarantee** covers the use of **ab239435** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

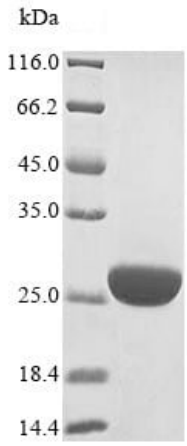
pH: 7.2
Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Relevance

RNA-directed RNA polymerase that catalyzes the transcription of viral mRNAs, their capping and polyadenylation. The template is composed of the viral RNA tightly encapsidated by the nucleoprotein (N). The viral polymerase binds to the genomic RNA at the 3' leader promoter, and transcribes subsequently all viral mRNAs with a decreasing efficiency. The first gene is the most transcribed, and the last the least transcribed. The viral phosphoprotein acts as a processivity factor. Capping is concommitant with initiation of mRNA transcription. Indeed, a GDP polyribonucleotidyl transferase (PRNTase) adds the cap structure when the nascent RNA chain length has reached few nucleotides. Ribose 2'-O methylation of viral mRNA cap precedes and facilitates subsequent guanine-N-7 methylation, both acticities being carried by the viral polymerase. Polyadenylation of mRNAs occur by a stuttering mechanism at a slipery stop site present at the end viral genes. After finishing transcription of a mRNA, the polymerase can resume transcription of the downstream gene.

Images



SDS-PAGE - Recombinant RNA directed RNA polymerase L protein (His tag) (ab239435)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab239435.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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