

POLR3C Polyclonal Antibody
Catalog # AP71998**Specification****POLR3C Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	O9BUI4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

POLR3C Polyclonal Antibody - Additional Information**Gene ID** 10623**Other Names**

POLR3C; DNA-directed RNA polymerase III subunit RPC3; RNA polymerase III subunit C3; DNA-directed RNA polymerase III subunit C; RNA polymerase III 62 kDa subunit; RPC62

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

POLR3C Polyclonal Antibody - Protein Information**Name** POLR3C ([HGNC:30076](#))**Function**

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates (PubMed:[20413673](http://www.uniprot.org/citations/20413673), PubMed:[33558764](http://www.uniprot.org/citations/33558764), PubMed:[33558766](http://www.uniprot.org/citations/33558766), PubMed:[34675218](http://www.uniprot.org/citations/34675218), PubMed:[35637192](http://www.uniprot.org/citations/35637192)). Specific peripheric component of RNA polymerase III (Pol III) which synthesizes small non-coding RNAs including 5S rRNA, snRNAs, tRNAs and miRNAs from at least 500 distinct genomic loci (PubMed:[20413673](http://www.uniprot.org/citations/20413673), PubMed:[33558764](http://www.uniprot.org/citations/33558764), PubMed:[33558766](http://www.uniprot.org/citations/33558766), PubMed:[35637192](http://www.uniprot.org/citations/35637192)). Part of POLR3C/RPC3-POLR3F/RPC6-POLR3G/RPC7 heterotrimer, coordinates the dynamics of Pol III stalk and clamp modules during the transition from apo to elongation state (PubMed:[35637192](#))

<http://www.uniprot.org/citations/33558764> target="_blank">33558764, PubMed:33558766). Pol III plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as a nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF-kappa-B through the RIG-I pathway (PubMed:19609254, PubMed:19631370). Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner (PubMed:21358628).

Cellular Location

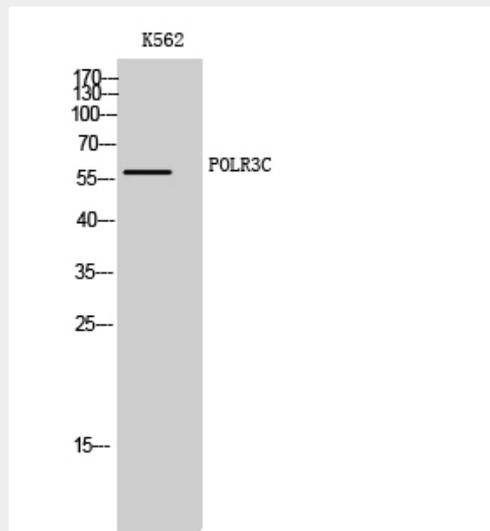
Nucleus.

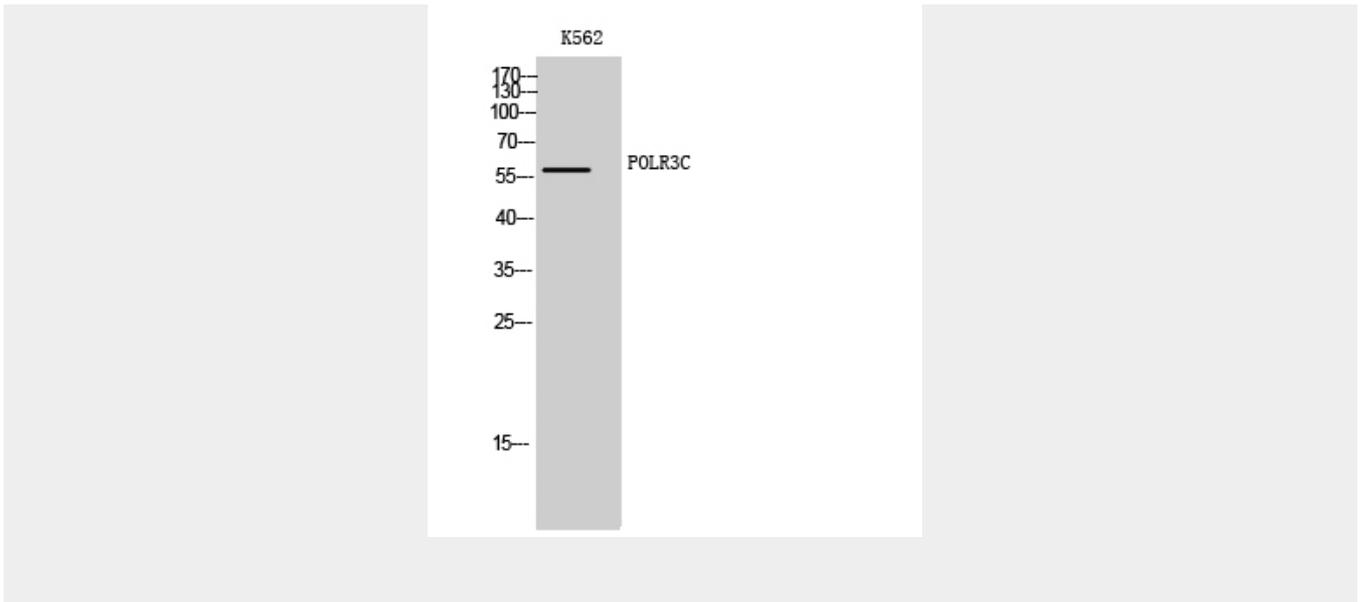
POLR3C Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

POLR3C Polyclonal Antibody - Images





POLR3C Polyclonal Antibody - Background

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the subcomplex RNA Pol III binding to the TFIIB- DNA complex via the interactions between TFIIB and POLR3F. May be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway. Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner (PubMed:21358628).