

RPC5 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1956c**Specification****RPC5 Antibody (Center) - Product Information**

Primary Accession	O9NVU0
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	241-271

RPC5 Antibody (Center) - Additional Information**Gene ID** 55718**Other Names**

DNA-directed RNA polymerase III subunit
RPC5, RNA polymerase III subunit C5,
DNA-directed RNA polymerase III 80 kDa
polypeptide, POLR3E, KIAA1452

Target/Specificity

This RPC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 241~271 amino acids from the central region of human RPC5.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RPC5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RPC5 Antibody (Center) - Protein Information**RPC5 Antibody (Center) - Background**

RNA polymerase III synthesizes RNA components of the protein synthesis, pre-mRNA splicing, and tRNA processing apparatuses. The holoenzyme consists of about 15 different subunits. The RPC5 subunit is essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters.

RPC5 Antibody (Center) - References

Hu, P., et al., Mol. Cell. Biol. 22(22):8044-8055 (2002).
Jang, K.L., et al., J. Acquir. Immune Defic. Syndr. 5(11):1142-1147 (1992).

Name POLR3E

Synonyms KIAA1452

Function

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. 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 (By similarity).

Cellular Location

Nucleus.

RPC5 Antibody (Center) - 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](#)

RPC5 Antibody (Center) - Citations

- [FACT facilitates chromatin transcription by RNA polymerases I and III.](#)