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RPC8 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP4936a

Specification

RPC8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9Y535

RPC8 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 171568

Other Names
DNA-directed RNA polymerase III subunit RPC8, RNA polymerase III subunit C8, DNA-directed RNA polymerase III subunit H, RNA polymerase III subunit 229 kDa subunit, RPC229, POLR3H, KIAA1665, RPC8

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RPC8 Antibody (N-term) Blocking Peptide - Protein Information

Name POLR3H (HGNC:30349)

Synonyms KIAA1665, RPC8

Function
DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates (PubMed:20413673, PubMed:34675218, PubMed:33558764). 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. With CRCP/RPC9 forms a mobile stalk that protrudes from Pol III core and functions primarily in transcription initiation (PubMed:34675218, PubMed:33558764) (By similarity). Pol III 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 (PubMed:19609254, PubMed:19631370).

Cellular Location
Nucleus.

RPC8 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RPC8 Antibody (N-term) Blocking Peptide - Images

RPC8 Antibody (N-term) Blocking Peptide - Background

RPC8 is 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. It is plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. It is acting as nuclear and cytosolic DNA sensor involved in innate immune response. It 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.

RPC8 Antibody (N-term) Blocking Peptide - References

Greco-Stewart, V.S., et al. Virology 386(1):12-15(2009)Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) Hu, P., et al. Mol. Cell. Biol. 22(22):8044-8055(2002)