

Product datasheet for **TA340114**

RPC62 (POLR3C) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-POLR3C antibody: synthetic peptide directed towards the middle region of human POLR3C. Synthetic peptide located within the following region: VEAIASMQATGAEAAQLQEIEEMITAPERQQLETLKRNVNKLDASEIQV
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60 kDa
Gene Name:	polymerase (RNA) III subunit C
Database Link:	NP_006459 Entrez Gene 10623 Human Q9BUI4



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Background:

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. POLR3C is a specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. POLR3C may direct with other members of the subcomplex RNA Pol III binding to the TFIIB-DNA complex via the interactions between TFIIB and POLR3F. POLR3C 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. POLR3C plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3C acts as nuclear and cytosolic DNA sensor involved in innate immune response. POLR3C 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.

Synonyms:

RPC3; RPC62

Note:

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Yeast: 90%

Protein Families:

Transcription Factors

Protein Pathways:

Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Product images:

WB Suggested Anti-POLR3C Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 12500; Positive Control: 293T cell lysate POLR3C is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells