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Product datasheet for TA332037

POLR3G 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-POLR3G Antibody is: synthetic peptide directed towards the middle region of Human POLR3G. Synthetic peptide located within the following region: SKRYMKVYKEEWIPDWRRLPREMMPRNKCKKAGPKPKKAKDAGKGTPLTN
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. *Note that this product is shipped as lyophilized powder to China customers.*
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	polymerase (RNA) III subunit G
Database Link:	NP_006458 Entrez Gene 10622 Human O15318

View online »

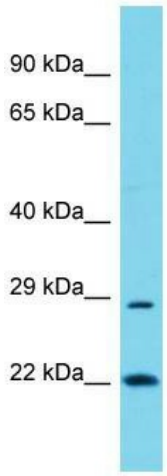
Background: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. POLR3G is a specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. It may direct with other members of the RPC3/POLR3C-RPC6/POLR3F-RPC7/POLR3G subcomplex RNA Pol III binding to the TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. It 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. POLR3G plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3G acts as nuclear and cytosolic DNA sensor involved in innate immune response. POLR3G 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: RPC7; RPC32

Note: Immunogen sequence homology: Human: 100%

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

Product images:



Host: Rabbit; Target Name: POLR3G; Sample Tissue: COLO205 Whole Cell lysates; Antibody Dilution: 1.0ug/ml