

Product datasheet for **TA386911**

POLR3A Rabbit Polyclonal Antibody

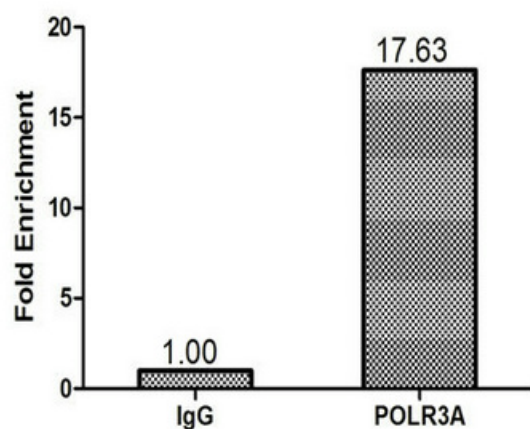
Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IHC
Recommended Dilution:	Recommended dilution: IHC:1:20-1:200
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant Human DNA-directed RNA polymerase III subunit RPC1 protein (392-632AA)
Formulation:	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Concentration:	lot specific
Purification:	>95%, Protein G purified
Conjugation:	Unconjugated
Storage:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Stability:	1 year from dispatch.
Database Link:	O14802
Background:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Forms the polymerase active center together with the second largest subunit. A single-stranded DNA template strand of the promoter is positioned within the central active site cleft of Pol III. A bridging helix emanates from RPC1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol III by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition (By similarity). 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.

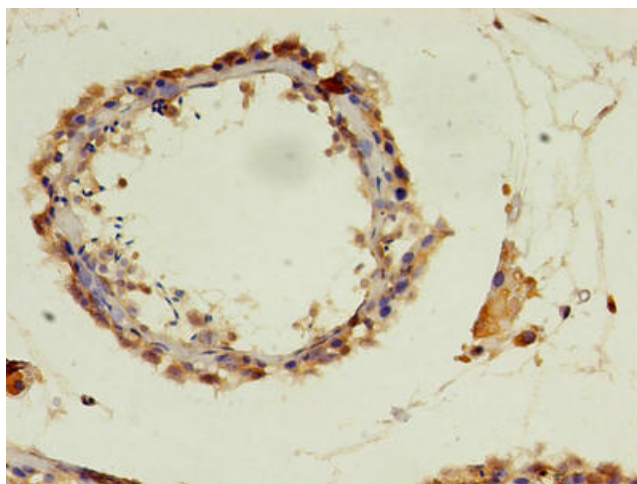


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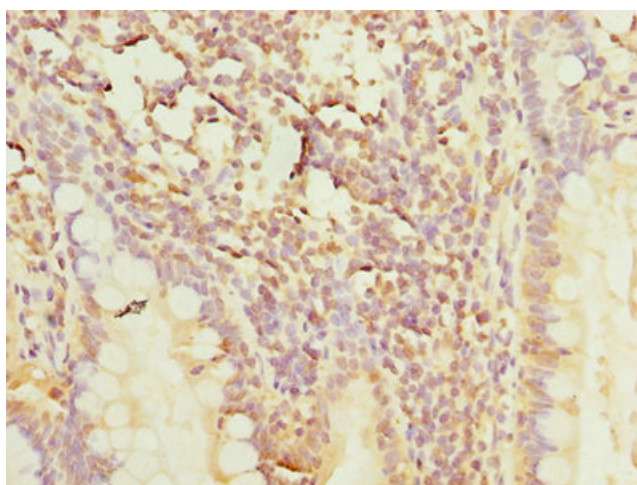
Product images:



Chromatin Immunoprecipitation 293T (1.6×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with $4 \mu\text{g}$ anti-POLR3A or a control normal rabbit IgG. The resulting CHIP DNA was quantified using real-time PCR with primers (CSB-PP018343HU) against the tRNA-Leu Anti-Codon (TAG) promoter.



Immunohistochemistry of paraffin-embedded human testis tissue using TA386911 at dilution of 1:100



Immunohistochemistry of paraffin-embedded human small intestine tissue using TA386911 at dilution of 1:100