

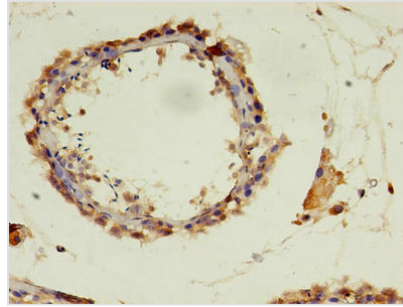


POLR3A Antibody

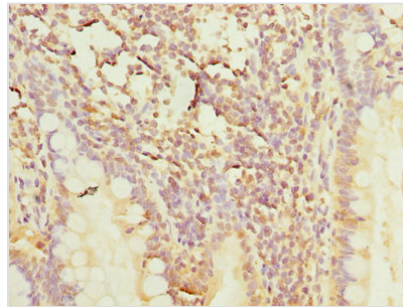
Product Code	CSB-PA018343LA01HU
Abbreviation	RNA polymerase III subunit C1
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O14802
Immunogen	Recombinant Human DNA-directed RNA polymerase III subunit RPC1 protein (392-632AA)
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, IHC, ChIP; Recommended dilution: IHC:1:20-1:200
Relevance	<p>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.</p>
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%, Protein G purified
Isotype	IgG
Clonality	Polyclonal
Alias	DNA-directed RNA polymerase III subunit RPC1 (RNA polymerase III subunit C1) (EC 2.7.7.6) (DNA-directed RNA polymerase III largest subunit) (DNA-directed RNA polymerase III subunit A) (RNA polymerase III 155 kDa subunit) (RPC155) (RNA polymerase III subunit C160), POLR3A
Species	Human
Research Area	Epigenetics and Nuclear Signaling

**Target Names**

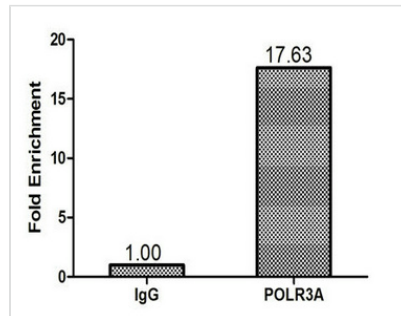
POLR3A

Image

Immunohistochemistry of paraffin-embedded human testis tissue using CSB-PA018343LA01HU at dilution of 1:100



Immunohistochemistry of paraffin-embedded human small intestine tissue using CSB-PA018343LA01HU at dilution of 1:100



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.