

Datasheet for ABIN7150446
anti-POLR3A antibody (AA 392-632)[Go to Product page](#)

3 Images

Overview

| | |
|----------------------|-------------------------------------------------------------------------|
| Quantity: | 100 µg |
| Target: | POLR3A |
| Binding Specificity: | AA 392-632 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This POLR3A antibody is un-conjugated |
| Application: | ELISA, Immunohistochemistry (IHC), Chromatin Immunoprecipitation (ChIP) |

Product Details

| | |
|-------------------|------------------------------------------------------------------------------------|
| Immunogen: | Recombinant Human DNA-directed RNA polymerase III subunit RPC1 protein (392-632AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target: | POLR3A |
| Alternative Name: | POLR3A (POLR3A Products) |
| Background: | Background: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core |

Target Details

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.

Aliases: BC053071 antibody, DNA directed RNA polymerase III largest subunit antibody, DNA directed RNA polymerase III subunit A antibody, DNA-directed RNA polymerase III largest subunit antibody, DNA-directed RNA polymerase III subunit A antibody, DNA-directed RNA polymerase III subunit RPC1 antibody, hRPC155 antibody, MGC62420 antibody, POLR 3A antibody, POLR3A antibody, Polymerase (RNA) III (DNA directed) polypeptide A 155 kDa antibody, Polymerase (RNA) III (DNA directed) polypeptide A antibody, RGD1305574 antibody, RNA polymerase III 155 kDa subunit antibody, RNA polymerase III subunit C1 antibody, RNA polymerase III subunit C160 antibody, RNA polymerase III subunit RPC155 D antibody, RPC1 antibody, RPC1_HUMAN antibody, RPC155 antibody

UniProt: [O14802](#)

Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

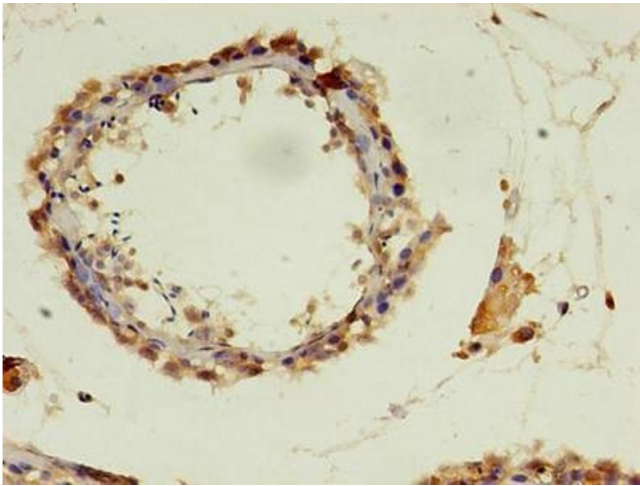
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C,-80 °C

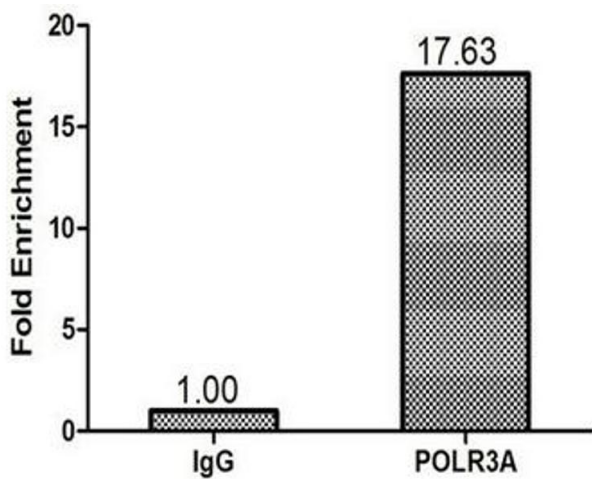
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



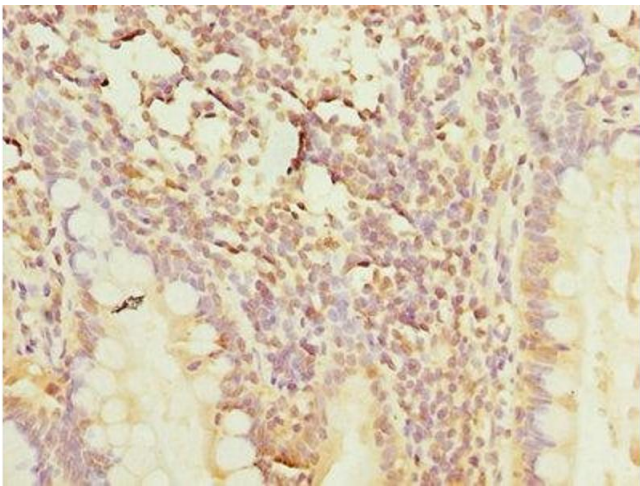
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7150446 at dilution of 1:100



Immunohistochemistry

Image 2. Chromatin Immunoprecipitation 293T (1.6×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4 μ g anti-POLR3A or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the tRNA-Leu Anti-Codon (TAG) promoter.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human small intestine tissue using ABIN7150446 at dilution of 1:100