

## **Anti-POLR3E Antibody**

Rabbit polyclonal antibody to POLR3E Catalog # AP60760

# **Specification**

## **Anti-POLR3E Antibody - Product Information**

Application WB, IF/IC, IHC

Primary Accession Q9NVU0

Reactivity Human, Mouse, Rat, Monkey
Host Rabbit

Clonality Polyclonal Calculated MW 79898

# **Anti-POLR3E Antibody - Additional Information**

#### **Gene ID 55718**

#### **Other Names**

KIAA1452; DNA-directed RNA polymerase III subunit RPC5; RNA polymerase III subunit C5; DNA-directed RNA polymerase III 80 kDa polypeptide

### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human POLR3E. The exact sequence is proprietary.

### Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~1:100~500

## **Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### **Anti-POLR3E Antibody - Protein Information**

Name POLR3E (HGNC:30347)

### Synonyms KIAA1452

#### **Function**

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates (PubMed:<a

href="http://www.uniprot.org/citations/12391170" target="\_blank">12391170</a>, PubMed:<a href="http://www.uniprot.org/citations/20413673" target="\_blank">20413673</a>, PubMed:<a



href="http://www.uniprot.org/citations/35637192" target="\_blank">35637192</a>). Specific peripheric component of RNA polymerase III (Pol III) which synthesizes small non-coding RNAs including 5S rRNA, snRNAs, tRNAs and miRNAs from at least 500 distinct genomic loci. Assembles with POLR3D/RPC4 forming a subcomplex that binds the Pol III core. Enables recruitment of Pol III at transcription initiation site and drives transcription initiation from both type 2 and type 3 DNA promoters. Required for efficient transcription termination and reinitiation (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/12391170" target="\_blank">12391170</a>, PubMed:<a href="http://www.uniprot.org/citations/20413673" target="\_blank">20413673</a><a href="http://www.uniprot.org/citations/35637192" target="\_blank">35637192</a><a href="http://www.

 $href="http://www.uniprot.org/citations/19609254" \ target="\_blank">19609254</a>, PubMed:<a href="http://www.uniprot.org/citations/19631370" target="\_blank">19631370</a>).$ 

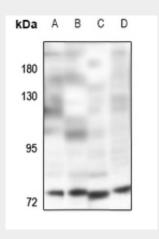
Cellular Location Nucleus.

## **Anti-POLR3E Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

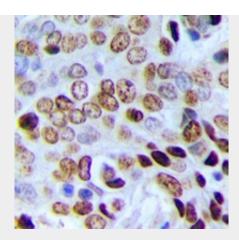
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Anti-POLR3E Antibody - Images**

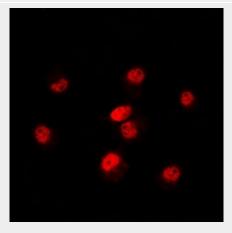


Western blot analysis of POLR3E expression in K562 (A), HEK293T (B), AML12 (C), H9C2 (D) whole cell lysates.





Immunohistochemical analysis of POLR3E staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of POLR3E staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-POLR3E Antibody - Background**

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