

POLR3A Rabbit pAb

CatalogNo: YT3813

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Monkey

Applications

- WB, IHC, IF, ELISA

MW

- 156kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human RPC1. AA range: 31-80

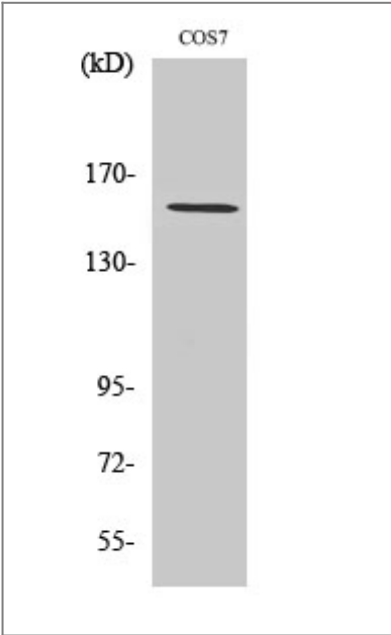
Specificity

POLR3A Polyclonal Antibody detects endogenous levels of POLR3A protein.

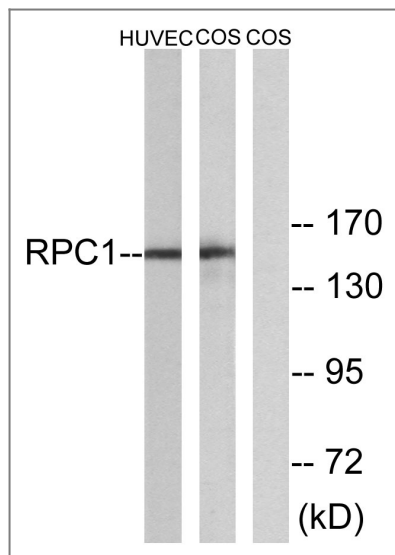
Target Information

Gene name	POLR3A		
Protein Name	DNA-directed RNA polymerase III subunit RPC1		
	Organism	Gene ID	UniProt ID
	Human	11128 ;	O14802 ;
Cellular Localization	Nucleus.		
Tissue specificity	Expressed in the brain, in the cortex and the white matter (at protein level).		
Function	Catalytic activity:Nucleoside triphosphate + RNA(n) = diphosphate + RNA(n+1).,Function: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.,similarity:Belongs to the RNA polymerase beta' chain family.,subunit:Component of the RNA polymerase III (Pol III) complex consisting of 17 subunits.,		

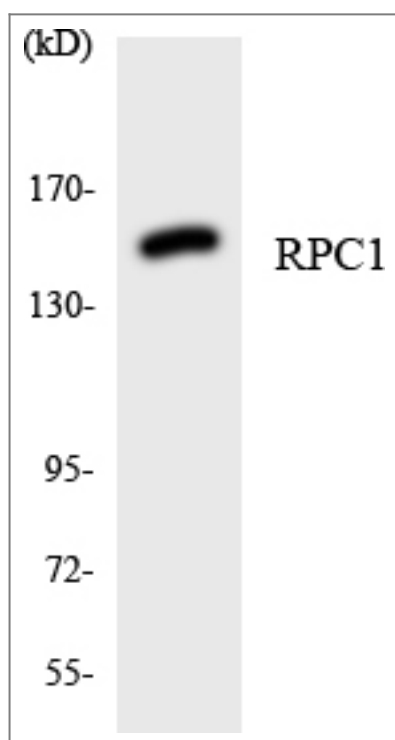
| Validation Data



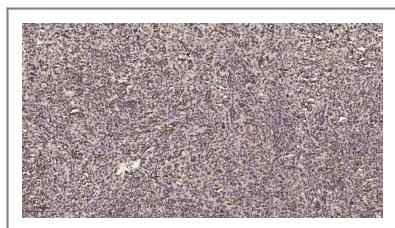
Western Blot analysis of various cells using POLR3A Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Western blot analysis of lysates from COS and HUVEC cells, using RPC1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using RPC1 antibody.



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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