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POLR2A (N-terminal) Rabbit mAb

Catalog No.: A21980 Recombinant 1 Publications

Basic Information

Observed MW
250kDa

Calculated MW
217kDa

Category
Primary antibody

Applications
WB,IP,ChIP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC54153

Background

This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA.

Recommended Dilutions

WB	1:2000 - 1:8000
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells
ChIP	5μg antibody for 10μg-15μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Immunogen Information

Gene ID
5430

Swiss Prot
P24928

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; NEDHIB; RpIILS; hsRPB1; hRPB220; POLR2A (N-terminal)

Product Information

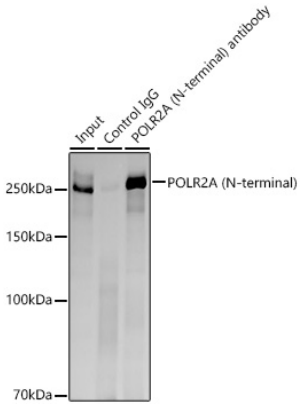
Source
Rabbit

Isotype
IgG

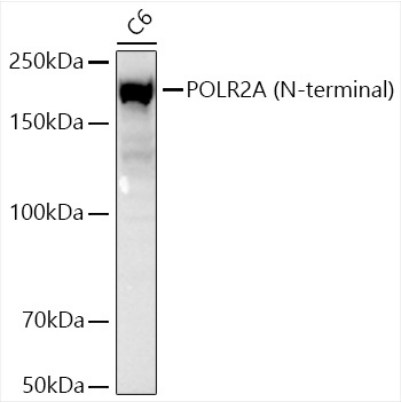
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

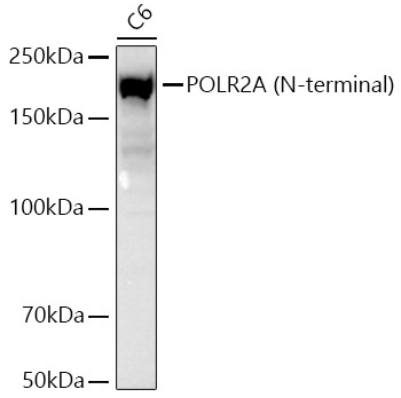
Validation Data



Immunoprecipitation analysis of 600 µg extracts of 293F cells using 3 µg POLR2A (N-terminal) Rabbit mAb (A21980). Western blot was performed from the immunoprecipitate using POLR2A (N-terminal) Rabbit mAb (A21980) at a dilution of 1:1000.

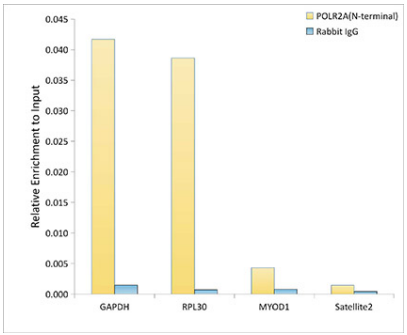


Western blot analysis of lysates from Mouse thymus, using POLR2A (N-terminal) Rabbit mAb (A21980) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Western blot analysis of lysates from C6 cells using POLR2A (N-terminal) Rabbit mAb (A21980) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.

Validation Data



Chromatin immunoprecipitation analysis of extracts of 293F cells, usingPOLR2A (N-terminal) Rabbit mAb (A21980) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.