

Anti-POLR2A Antibody

HA500566



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 217 kDa

Description: DNA-directed RNA polymerase II subunit RPB1, also known as RPB1, is an enzyme that is encoded by the POLR2A gene in humans. 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.

Immunogen: Synthetic peptide within human POLR2A aa 1,601-1,650.

Positive control: HeLa cell lysate, MCF7 cell lysate, 293T cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate.

Subcellular location: Nucleus, Cytoplasm, Chromosome.

Database links: SwissProt: P24928 Human | P08775 Mouse
Entrez Gene: 363633 Rat

Recommended Dilutions:
WB 1:2,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

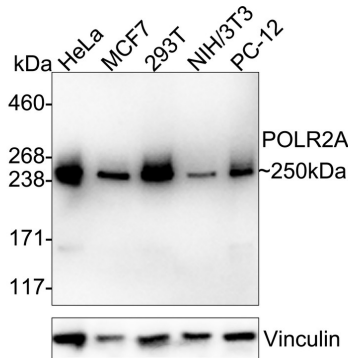
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of POLR2A on different lysates with Rabbit anti-POLR2A antibody (HA500566) at 1/2,000 dilution.



Lane 1: HeLa cell lysate
 Lane 2: MCF7 cell lysate
 Lane 3: 293T cell lysate
 Lane 4: NIH/3T3 cell lysate
 Lane 5: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 217 kDa
 Observed band size: 250 kDa

Exposure time: 1 minute; ECL: K1801;

3-8% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA500566) at 1/2,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhang D et al. USP10 Inhibits Ferroptosis via Deubiquinating POLR2A in Head and Neck Squamous Cell Carcinoma. *Adv Sci (Weinh)*. 2025 Sep
2. Liu C et al. POLR2A blocks osteoclastic bone resorption and protects against osteoporosis by interacting with CREB1. *J Cell Physiol*. 2021 Jul

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