

Datasheet for 600-401-HB3**POL II Antibody****Overview**

Description:	Anti-POL II (RABBIT) Antibody - 600-401-HB3
Item No.:	600-401-HB3
Size:	100 µg
Applications:	ChIP, ELISA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-POL II antibody will detect DNA-directed RNA polymerase II subunit RPB1, an enzyme composed of 12 subunits, which initiates the transcription of RNA from DNA, synthesizing many functional non-coding RNAs as well as messenger RNA precursors. POL II encodes a core element of the transcription machinery. Malfunctioning of the Pol II gene can cause diseases such as Cockayne Syndrome B and La Crosse Encephalitis. Anti-POL II Antibody is useful for researchers interested in DNA damage and repair studies.
Synonyms:	RPO2, DNA-directed RNA polymerase II subunit A, DNA-directed RNA polymerase III largest subunit, RNA-directed RNA polymerase II subunit RPB1, RPB1, POLR2A,
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	POLR2A
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-POL II antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the n-terminal portion of human POL II conjugated to Keyhole Limpet Hemocyanin (KLH).

Purity/Specificity: This affinity purified antibody is directed against human POL II. This product was affinity purified from monospecific antiserum by immunoaffinity purification. Blast analysis of the sequence of the immunogen shows 100% identity with mouse and Chinese hamster.

Relevant Links:

- [GeneID - 5430](#)
- [UniProtKB - P24928](#)
- [NCBI - NP_000928.1](#)

Application Details

Tested Applications:	ChIP, ELISA
Application Note:	Anti-POL II antibody has been tested in ChIP and ELISA, and is likely suitable for western blotting and immunofluorescence assays. Positive controls used in ChIP were EGF stimulated NR4A1 5', NR4A1 3' and FOS 3'. The negative control was total rabbit IgG.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	User Optimized
ELISA:	1:10,000 - 1:50,000
IF:	User Optimized
WB:	1:1000
Other:	User optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

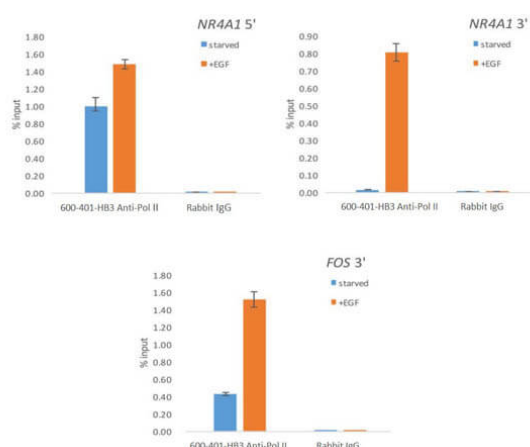
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ChIP

Chromatin Immunoprecipitation of Rabbit Anti-Pol II Antibody. Chromatin from three million formaldehyde cross-linked HeLa cells (total volume 1.0mL) was used with 2.5µg of Anti-Pol II was used to IP DNA to test in three different conditions; NR4A1 5', NR4A1 3' and FOS 3' starved and EGF stimulated with total rabbit IgG used as control.

References

- Serresi M et al. Functional antagonism of chromatin modulators regulates epithelial-mesenchymal transition. *Sci Adv.* (2021)

Disclaimer

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