

Pol II RPB3 (1Y26 (1Y27)): sc-101614

BACKGROUND

Eukaryotes produce 3 distinct classes of RNA polymerase, Pol I, II and III. Each polymerase is responsible for the synthesis of a different class of RNA. RNA polymerase II (Pol II) is an enzyme that is composed of twelve subunits and is responsible for the transcription of protein-coding genes. Transcription initiation requires Pol II-mediated recruitment of transcription machinery to a target promoter, thereby allowing transcription to begin. Pol II RPB3 (RNA polymerase II subunit B3), also known as RPB3, is a 318 amino acid protein subunit of the RNA polymerase II (Pol II) complex. Localized to the nucleus, Pol II RPB3 is the central component of the basal RNA polymerase II transcription machinery and is part of the core element with the central large cleft and the clamp element that moves to open and close the cleft. Pol II RPB3 also aids in the synthesis of mRNA precursors and many functional non-coding RNAs.

REFERENCES

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SOURCE

Pol II RPB3 (1Y26 (1Y27)) is a mouse monoclonal antibody raised against RNA polymerase II subunit RPB3 of yeast origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Pol II RPB3 (1Y26 (1Y27)) is recommended for detection of Pol II RPB3 of yeast origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Molecular Weight of Pol II RPB3: 35 kDa.

SELECT PRODUCT CITATIONS

1. Al Husini, N., et al. 2013. A role for CF1A 3' end processing complex in promoter-associated transcription. *PLoS Genet.* 9: e1003722.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.