

Pol II RPB5 (3Y11): sc-101605

BACKGROUND

Eukaryotes produce three distinct classes of RNA polymerase, designated Pol I, Pol II and Pol III. Each polymerase is responsible for the synthesis of a different class of RNA. Pol I transcribes rRNA (ribosomal RNA) genes, while Pol II transcribes protein-encoding genes into mRNA (messenger RNA) and Pol III transcribes the 5S rRNA genes and all of the tRNA (transfer RNA) genes. POLR2E (polymerase (RNA) II (DNA directed) polypeptide E, 25 kDa), also known as RPB5, is a 210 amino acid nuclear protein that functions as the fifth largest subunit of Pol II and plays a role in transcription. The yeast homolog of POLR2E is known as Pol II RPB5 and, like its mammalian counterpart, exists as a component of Pol II and participates in the initiation and regulation of transcription.

REFERENCES

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SOURCE

Pol II RPB5 (3Y11) is a mouse monoclonal antibody raised against RNA polymerase II subunit RPB5 of yeast origin.

PRODUCT

Each vial contains 100 µl ascites containing IgG₁ with < 0.1% sodium azide.

APPLICATIONS

Pol II RPB5 (3Y11) is recommended for detection of Pol II RPB5 of yeast origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:5000).

Molecular Weight of Pol II RPB5: 27 kDa.

SELECT PRODUCT CITATIONS

- Pramanik, K.K., Nagini, S., Singh, A.K., Mishra, P., Kashyap, T., Nath, N., Alam, M., Rana, A. and Mishra, R. 2018. Glycogen synthase kinase-3β mediated regulation of matrix metalloproteinase-9 and its involvement in oral squamous cell carcinoma progression and invasion. *Cell. Oncol.* 41: 47-60.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

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.