

Mab to RNA Polymerase II



Clone Determination	ARNA-3
Category	Mouse monoclonal
Immunoglobulin Class	IgG ₁
Purification/Form	Hybridoma culture supernatant
Antigen	Purified RNA polymerase II
Specificity/Application	ARNA-3 is excellent for detection of transcription activity, e.g. puffs in polytene chromosomes. Reacts with RNA polymerase II (Mr 175,000 subunit of RNAP II) in biological materials. Reactive polypeptides after SDS-PAGE: 200 kD band of nonphosphorylated and 240 kD band of phosphorylated Pol IIA. Epitope recognized: ⁷⁹⁴ DDYGPESESRGFVENSYLA ⁸²²
Antigen Recognized in Species (tested so far)	Human, insects
Reactivities on Cultured Cell Lines (tested so far)	Drosophila chromosomes, PTK-2, HeLa, Hep2
Application	Suitable for <ul style="list-style-type: none">• frozen tissue• cell culture• immunoblotting (Western)
Working Dilution	Ready-to-use for immunohistochemical applications (recommended fixation conditions for cells: incubate in 2% paraformaldehyde in PBS for 10 min, wash in PBS for 5 min, incubate in 0.2% Triton X-100 in PBS for 5 min, wash in PBS for 5 min)
Incubation Time	1 h at RT for immunohistochemistry
Storage	At 2-8°C
Quantity	5 ml (contains 0.09% NaN ₃)

Literature

- Krämer A, Haars R, Kabisch R, Will H, Bautz FA, Bautz EKF: Monoclonal antibody directed against RNA polymerase II of drosophila melanogaster. *Molec gen Gene*. 180, 193-199 (1980)
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- Kontermann RE, Liu Z, Schulze RA, Sommer KA, Queitsch I, Duebel S, Kipriyanov SM, Breitling F, Bautz EK: Characterization of the epitope recognized by a monoclonal antibody directed against the largest subunit of Drosophila RNA polymerase II. *Biol Chem Hoppe Seyler* 376, 473-481 (1995).
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- Dubois M-F, Marshall NF, Nguyen VT, Dahmus GK, Bonnet F, Dahmus ME, Bensaude O: Heat shock of HeLa cells inactivates a nuclear protein phosphatase specific for dephosphorylation of the C-terminal domain of RNA polymerase II. *Nucleic Acids Res* 27, 1338-1344 (1999)

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