

## Product datasheet

### anti-RNA Polymerase II mouse monoclonal, ARNA-3, supernatant concentrate

#### Short overview

<b>Cat. No.</b>	65223
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	ARNA-3
<b>Immunogen</b>	Purified drosophila melanogaster RNA polymerase II
<b>Formulation</b>	Contains 0.09% sodium azide
<b>UniprotID</b>	P24928 (Human)
<b>Synonym</b>	DNA-directed RNA polymerase II subunit RPB1, RNA polymerase II subunit B1, EC 2.7.7.6, DNA-directed RNA polymerase II subunit A, DNA-directed RNA polymerase III largest subunit, RNA-directed RNA polymerase II subunit RPB1, EC 2.7.7.48, POLR2A, POLR2
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Hybridoma cell culture supernatant concentrate
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Drosophila, Human

#### Applications

<b>Immunocytochemistry (ICC)</b>	Assay dependent (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)
<b>Immunohistochemistry (IHC) - frozen</b>	for 60min)
<b>Western Blot (WB)</b>	Assay dependent

#### Background

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 within: 794-DDYGPE SRGFVENS YLA-822

## Product images



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## References

Publication	Species	Application
<a href="#">Girard, C. et al. Post-transcriptional spliceosomes are retained in nuclear speckles until splicing completion. Nat. Commun. 3, 994 (2012).</a>	human	WB
<a href="#">Nayler, O. et al. SAF-B protein couples transcription and pre-mRNA splicing to SAR/MAR elements. Nucleic Acids Res. 26, 3542-3549 (1998).</a>	human	WB
<a href="#">Kontermann, R. E. et al. Characterization of the epitope recognized by a monoclonal antibody directed against the largest subunit of Drosophila RNA polymerase II. Biol. Chem. Hoppe. Seyler. 376, 473-81 (1995).</a>	drosophila	WB
<a href="#">Petersen, G., Song, D., Hugle-Dorr, B., Oldenburg, I. &amp; Bautz, E. K. Mapping of linear epitopes recognized by monoclonal antibodies with gene-fragment phage display libraries. Mol Gen Genet 249, 425-431 (1995).</a>		epitope mapping
<a href="#">KrÄmmer, A. et al. Monoclonal antibody directed against RNA polymerase II of Drosophila melanogaster. Mol. Gen. Genet. MGG 180, 193-9 (1980).</a>	drosophila	IF