RPB1 antibody [4H8]

Cat. No. GTX80341

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	WB, ICC/IF, FCM, ChIP assay
Reactivity	Human, Japanese Medaka

References (1)
Package
50 µl

Applications

Application Note

Optimal dilutions should be determined experimentally by the researcher.

Calculated MW	217 kDa. (Note)
Product Note	Please note that this antibody detects both unphosphorylated and phosphorylated forms of the protein. When using this antibody in western blot and IP, it recognizes both the II0 and IIA form of RPB1 (ie the largest RNAPII subunit). These different forms of RPB1 (as seen in gels) have traditionally been loosely defined as 'hyper-' and 'hypo-phosphorylated', respectively. Here, however, it is important to remember that RPB1 contains no less than 52 repeats of a heptapeptide (TSPTSPS) that can be phosphorylated at different positions (Tyr1, Ser2, Thr4, Ser5 and Ser7; this antibody was raised against a synthetic peptide with 10 of these repeats, mostly but probably not entirely, chemically phosphorylated at Ser5). So, when we say that it recognizes both forms (II0/hyper-phos and IIA/hypo-phos), it might really just mean that the antibody recognizes a few phosphorylated Ser5s among 52 otherwise mostly un-phosphorylated repeats. Alternatively, it might conceivably (though less likely) recognize UN-phosphorylated repeats as there might conceivably be a few of those even in the II0/hyper-phos RPB1 form.

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	10 repeats of synthetic peptide YSPTSPS using chemically synthesized phospho-Ser 5 YSPTSpPS (Human). [UniProt# P24928]
Purification	Protein G purified
Conjugation	Unconjugated

For full product information, images and publications, please visit our website.

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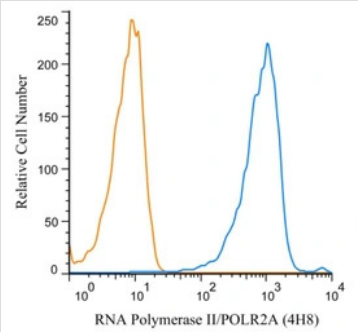
Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

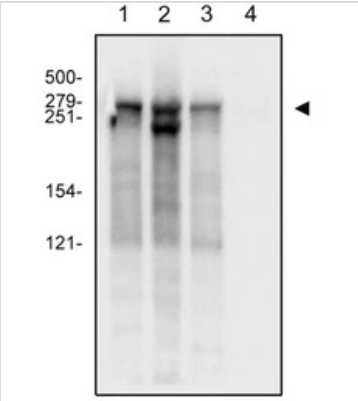
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



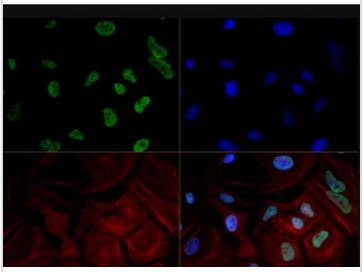
GTX80341 FCM Image

FACS analysis of Daudi cells using GTX80341 RPB1 antibody [4H8]
Orange: Negative control
Blue: Daudi cells



GTX80341 WB Image

WB analysis of various samples using GTX80341 RPB1 antibody [4H8]
Lane1: Hela
Lane2: MCF7
Lane3: NIH-3T3
Lane4: Cos7



GTX80341 ICC/IF Image

ICC/IF analysis of Hela cells using GTX80341 RPB1 antibody [4H8]
Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

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