

## Datasheet: AHP3099

<b>Description:</b>	RABBIT ANTI HUMAN RNA POL II CTD (pSer5)
<b>Specificity:</b>	RNA POL II CTD (pSer5)
<b>Other names:</b>	RPB1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			0.5 µg/ml - 2 µg/ml
Chromatin Immunoprecipitation	▪			4 µg per ChIP - 10 µg per ChIP

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

Based on sequence similarity, is expected to react with: Broad

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to human RNA pol II CTD (pSer5) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on Protein A.

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.035% Sodium Azide (NaN <sub>3</sub> ) 30% Glycerol
<b>Carrier Free</b>	Yes
<b>Immunogen</b>	A synthetic peptide containing the RNA pol II C-terminal domain phosphorylated at serine 5
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P24928</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5430</a>    POLR2A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	POLR2
<b>Specificity</b>	<p><b>Rabbit anti Human RNA pol II CTD (pSer5) antibody</b> recognizes RNA polymerase II, also known as RNAP II and pol II, when phosphorylated at serine 5 of the carboxyl-terminal repeat domain.</p> <p>RNA pol II is a 550 kDa enzyme complex made up of 12 subunits that transcribes DNA into precursors of messenger RNA (mRNA), snRNA, and microRNA (<a href="#">Kornburg, 1999</a>) (<a href="#">Sims et al. 2004</a>). The carboxyl-terminal repeat domain (CTD) of RNA pol II is reversibly phosphorylated in during the transcription cycle. It is thought that phosphorylation of the CTD of RNA pol II at serine 5 facilitates the formation of 3' ends of messages (<a href="#">Phatnani and Greenleaf, 2006</a>). Phosphorylation of serine 5 of the carboxyl-terminal repeat domain of RNA pol II facilitates the recruitment of the capping enzyme (<a href="#">Egloff and Murphy, 2008</a>).</p> <p>Wide species cross-reactivity is expected from Rabbit anti Human RNA pol II CTD (pSer5) based on sequence.</p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP3099">https://www.bio-rad-antibodies.com/SDS/AHP3099</a> 10049
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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