

RNA Pol II CTD Ser2 phosphorylation specific antibody **[3E10]**

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|-----------------------------|---|
| Relevance | Changes of phosphorylation patterns of the carboxyl-terminal repeat domain (CTD) of RNA Pol II serves as flexible binding scaffold for a variety of proteins. |
| Specificity | Mammals, yeast, drosophila Antigen: Ova-YSPTSPSYS(P)PTSPS |
| Description | Rat monoclonal [3E10] to RNA Polymerase II with phosphorylated Ser2 in the C-terminal domain. |
| Product Type | Primary antibody |
| Isotype | IgG1 |
| Form | Liquid; hybridoma supernatant |
| Size | 1 ml; 5 ml |
| Storage Buffer | PBS, preservative: 0.09% Sodium Azide Material safety datasheet (MSDS) for this product: Sodium Azide MSDS |
| Storage instructions | Shipped at ambient temperature. Upon receipt store at +4°C. Stable for one year. Do not freeze! |
| Application | Western blot: recommended starting concentration 1:10 ChIP: recommended starting volume 500 µl/ChIP The concentration of the antibody can vary. The optimal dilution should be determined by the end user. A titration from 1:5 up to 1:500 is recommended. IF: not tested |
| References | Chapman RD, Heidemann M, Albert TK, Mailhammer R, Flatley A, Meisterernst M, Kremmer E, Eick D. Transcribing RNA polymerase II is phosphorylated at CTD residue serine-7. Science , 2007 Dec 14;318(5857):1780-2. (PubMed) |

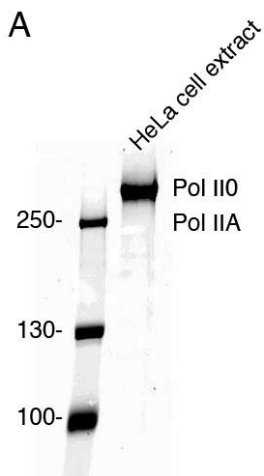
Tested applications

Western Blot

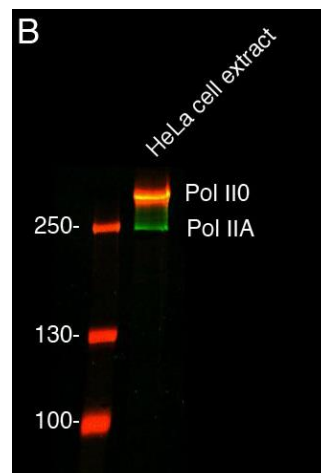
Primary antibody: RNA Pol II 3D10 1:10

Secondary antibody: anti-rat-Alexa680 or anti-rat-HRP

A: ECL detection of Ser2-P by antibody 3E10 in HeLa cell extracts.



B: Simultaneous detection of total RNA Pol II (green) and phosphorylated Ser2 variants (red, 3E10) - overlay appears orange. Note that hyperphosphorylated RNA Pol II runs at higher molecular weight.



Only for research applications, not for diagnostic or therapeutic use.