

RNA Pol II CTD Ser7 phosphorylation specific antibody [4E12]

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, drosophila, yeast
Description	Rat monoclonal [4E12] to RNA Polymerase II with phosphorylated Ser7 in the C-terminal domain
Product Type	Primary antibody
Isotype	IgG1
Antigen	Ova-YSPTSPS(P)YSPTSPS
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

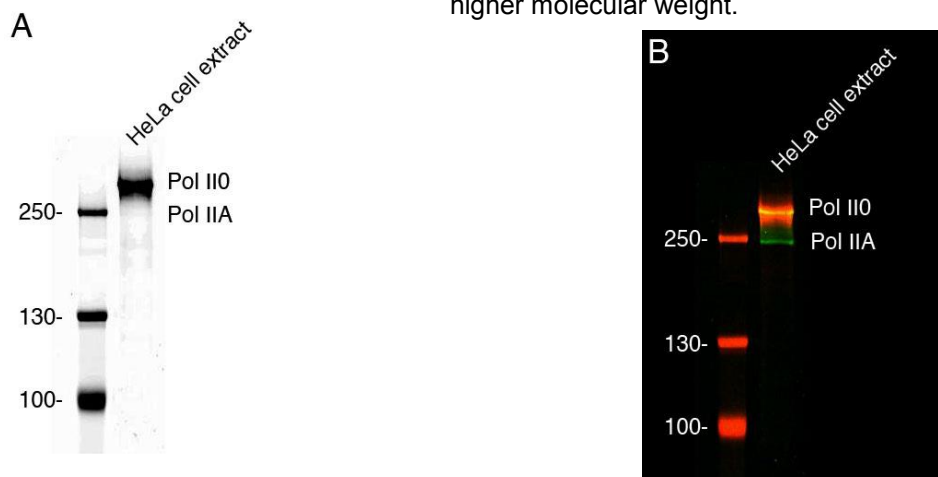
Western Blot

Primary antibody: RNA Pol II 4E12 1:10

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

A: ECL detection of Ser7-P by antibody 4E12 in HeLa cell extracts.

B: Simultaneous detection of total RNA Pol II (green) and phosphorylated Ser7 variants (red, 4E12) - overlay appears orange. Note that hyperphosphorylated RNA Pol II runs at higher molecular weight.



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