

兔抗 POLR2A 多克隆抗体

中文名称: 兔抗 POLR2A 多克隆抗体

英文名称: Anti-POLR2A rabbit polyclonal antibody

别 名: RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RpIILS; hsRPB1; hRPB220

相关类别: 一抗

储 存: 冷冻(-20℃) 避光

宿 主: Rabbit

抗 原: POLR2A

反应种属: Human, Mouse, Rat

标 记 物: Unconjugate

克隆类型: rabbit polyclonal

技术规格

Background:

RNA polymerase II (RNAPII) is a large multi-protein compl ex that functions as a DNA-dependent RNA polymerase, c atalyzing the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. The largest sub unit, RNAPII subunit B1 (Rpb1), also known as RNAPII sub unit A (POLR2A), contains a unique heptapeptide sequence (Tyr1,Ser2,Pro3,Thr4,Ser5,Pro6,Ser7), which is repeated up t o 52 times in the carboxy-terminal domain (CTD) of the pr otein. This CTD heptapeptide repeat is subject to multiple post-translational modifications, which dictate the functiona I state of the polymerase complex. Phosphorylation of the CTD during the active transcription cycle integrates transcription with chromatin remodeling and nascent RNA process



Applications:

Immunogen: Full name:

Synonyms:

SwissProt:

Name of antibody:

WB Predicted band size: WB Positive control:

WB Recommended dilution:

500-2000

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ing by regulating the recruitment of chromatin modifying enzymes and RNA processing proteins to the transcribed g ene. During transcription initiation, RNAPII contains a hypo phosphorylated CTD and is recruited to gene promoters th rough interactions with DNA-bound transcription factors and the Mediator complex. The escape of RNAPII from gene promoters requires phosphorylation at Ser5 by CDK7, the catalytic subunit of transcription factor IIH (TFIIH). Phospho rylation at Ser5 mediates the recruitment of RNA capping enzymes, in addition to histone H3 Lys4 methyltransferases, which function to regulate transcription initiation and chromatin structure. After promoter escape, RNAPII proceeds down the gene to an intrinsic pause site, where it is halted by the negative elongation factors NELF and DSIF. At this point, RNAPII is unstable and frequently aborts transcription and dissociates from the gene. Productive transcription elongation requires phosphorylation at Ser2 by CDK9, the catalytic subunit of the positive transcription elongation factor P-TEFb. Phosphorylation at Ser2 creates a stable trans
cription elongation complex and facilitates recruitment of RNA splicing and polyadenylation factors, in addition to hi stone H3 Lys36 methyltransferases, which function to prom
ote elongation-compatible chromatin.
WB
POLR2A
Fusion protein of human POLR2A
polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RpIILS; hsRPB1; hRPB220
P24928
270 kDa
HeLa cells



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