



Swiss-Prot No.:	O15514
Altermname:	POLR2D
Storage/Stability:	Store at -20°C. Avoid freeze / thaw cycles.
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-142 of human POLR2D (NP_004796.1).
Purification:	Affinity purified
Reactivity:	Human,Mouse
Other Names:	RBP4; RPB16; HSRBP4; HSRPB4
Cellular localization:	DNA-directed RNA polymerase, Nucleus
Relevance:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RPB4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double-stranded DNA to

	enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA .
Source:	Rabbit
Antibody type:	Polyclonal antibody
Isotype:	Rabbit IgG
Molecular Weight:	17kDa
Preservative:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Recommended Dilutions:	WB 1:500 - 1:2000; IF 1:10 - 1:100; IP 1:50 - 1:200(Optimal dilutions should be determined by the end user)