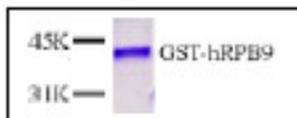


POLR2I

Recombinant Human (RNA) Polymerase II p14.5 subunit GST

Catalog No.	CSI13975	Quantity:	10 µg
Alternate Names:	HRBP14.4, POLRF, RPABC2, RPB14.4, RPB6, DNA directed RNA polymerase II 14.4 kda polypeptide, DNA directed RNA polymerase II polypeptide F, RNA Polymerase II subunit 14.4 kD		
Description:	<p>hRPB9 is a subunit unique to RNA Polymerase II, although it has sequence homologues in RNA Polymerases I and III. The gene for Rpb9 is not essential for yeast cell viability, but is essential in <i>Drosophila</i>. hRPB9 has roles in both transcription initiation and transcription elongation. In the initiation reaction it is necessary for accurate start site selection. In the elongation reaction, RPB9, along with TFIIS facilitates the conversion of an arrest-competent conformation to a read-through competent conformation. RNA Polymerase II lacking the RPB9 subunit uses alternate transcription initiation sites in vitro and in vivo and is unable to respond to the transcription elongation factor TFIIS in vitro. A role in the modulation of initiation and elongation is consistent with the localization of RPB9 in the three-dimensional structure of yeast RNA Polymerase II. RPB9 is located at the tip of the so-called "jaws" of the enzyme, which is thought to function by clamping the DNA downstream of the active site. RPB9 comprises two zinc ribbon domains joined by a conserved linker region. The C-terminal zinc ribbon is similar in sequence to that found in TFIIS.</p> <p>Recombinant p14.5 is isolated from an <i>E. coli</i> strain that carries the coding sequence of human RPB9 under the control of a T7 promoter.</p> <p>hRPB9 has been applied in protein-protein interaction assays.</p>		
Gene ID:	5438		
Source:	<i>E. coli</i>		
Molecular Weight:	42.2 kDa		
Formulation:	Liquid. Supplied in 20 mM Tris-HCl + pH 8.0 + 100 mM KCl + 0.2 mM EDTA + 1 mM DTT, 20% glycerol.		
Purity:	>95% by SDS-PAGE		
Biological Activity:	100 ng are sufficient for a protein-protein interaction assay.		
Storage & Stability:	Stable for 1 year in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		



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