

Rpb1 CTD (Phospho Ser2) rabbit pAb

Catalog No: YP1471

Reactivity: Human; Mouse; Rat

Applications: WB

Target: Rpb1

Fields: >>RNA polymerase;>>Huntington disease

P24928

P08775

Gene Name: POLR2A POLR2

Protein Name: Rpb1 CTD (Ser2)

Human Gene Id: 5430

Human Swiss Prot

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No:

Mouse Gene ld: 20020

Mouse Swiss Prot

No:

Immunogen: Synthesized phosho peptide around human Rpb1 CTD (Ser2)

Specificity: This antibody detects endogenous levels of Human Mouse Rat POLR2A

carboxy-terminal domain (CTD) heptapeptide repeat YSPTSPS (phospho-Ser2)

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:1000-2000

Purification: The antibody was affinity-purified from rabbit serum by affinity-chromatography

using specific immunogen.

Concentration: 1 mg/ml

1/3



Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 250kD

Cell Pathway: Purine metabolism;Pyrimidine metabolism;RNA polymerase;Huntington's

disease;

Background: This gene encodes the largest subunit of RNA polymerase II, the polymerase

responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA

template is transcribed into RNA. [provided by RefSeq, Jul 2008],

Function: catalytic activity:Nucleoside triphosphate + RNA(n) = diphosphate +

RNA(n+1).,function:DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Forms the polymerase active center together with the second largest subunit. 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. RPB1 is part of the core element with the central large cleft, the clamp element that moves to open and close the cleft and the jaws that are thought to grab the incoming DNA template. At the start of transcription, a single stranded DNA template strand of the promoter is positioned

within the central active site cleft of

Subcellular Location:

Nucleus . Cytoplasm . Chromosome . Hypophosphorylated form is mainly found in the cytoplasm, while the hyperphosphorylated and active form is nuclear (PubMed:26566685). Co-localizes with kinase SRPK2 and helicase DDX23 at

chromatin loci where unscheduled R-loops form (PubMed:28076779). .

Expression : Fetal pancreas, Testis,

Sort : 14597

No4: 1

Host: Rabbit

Modifications : Phospho



Products Images