antibodies -online.com





anti-Rpb1 CTD antibody (pSer5)





Go to Product page

\sim					
	1//6	r	V I	Θ	Λ

Quantity:	100 μg
Target:	Rpb1 CTD
Binding Specificity:	pSer5
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Rpb1 CTD antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq)
Product Details	
Immunogen:	This RNA pol II CTD phospho Ser5 antibody was raised against synthetic peptide containing the RNA Pol II heptad repeat consensus sequence phosphorylated at serine 5.
Isotype:	IgG
Characteristics:	RNA pol II (RNA polymerase II) is responsible for synthesizing messenger RNA in eukaryotes. RNA pol II contains a carboxy terminal domain composed of heptapeptide repeats that are

form is involved in active transcription. Phosphorylation occurs at two sites within the
heptapeptide repeat, at Serine 5 and Serine 2. RNA pol II Serine 5 phosphorylation is confined to
promoter regions and is necessary for the initiation of transcription. RNA pol II CTD phospho
Ser5 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin
Immunoprecipitation, ChIP-Seq and Western blot, it has been shown to react with Human and
Mouse samples, but it is predicted that it will react with a wide range of sample types.

Purification:

Protein A Chromatography

Target Details

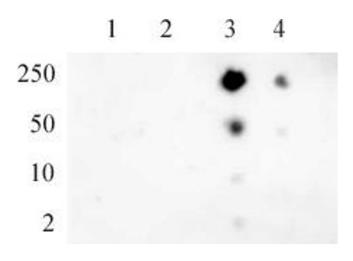
Target:	Rpb1 CTD
Alternative Name:	RNA pol II CTD (Rpb1 CTD Products)
Molecular Weight:	210 kDa
NCBI Accession:	NP_000928

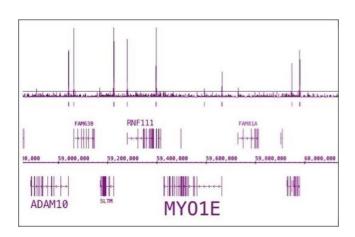
Application Details

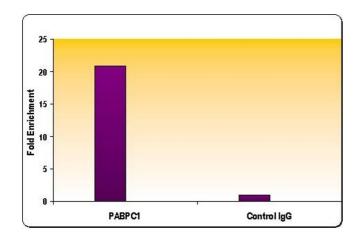
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	

Buffer:	Purified IgG in PBS (pH 7.5) with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -

20°C for up to 2 years. Keep all reagents on ice when not in storage.







Dot Blot

Image 1. RNA pol II CTD phospho Ser5 pAb tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of RNA pol II CTD phospho Ser5 antibody for phospho-Ser5 of the RNA Pol II C-terminal domain heptad repeat. Modified and unmodified peptides were spotted onto PVDF and probed with the antibody at a dilution of 0.2 µg/mL. Decreasing amounts of peptide were spotted in each row. Lane 1: Peptide phosphorylated at CTD repeat serine 2. Lane 2: Unmodified CTD repeat serine 2 peptide. Lane 3: Peptide phosphorylated at CTD repeat serine 5. Lane 4: Unmodified CTD repeat serine 5 peptide.

ChIP DNA-Sequencing

Image 2. RNA pol II CTD phospho Ser5 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with chromatin from 2.3 million HL-60 cells and 4 μ L of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 26 million sequence tags were mapped to identify RNA pol II phospho Ser5 binding. The image shows a 1.2 million base pair region on chromosome 15 with the expected enrichment at gene promoters.

Chromatin Immunoprecipitation

Image 3. RNA pol II CTD phospho Ser5 antibody tested by ChIP analysis. Chromatin IP performed using the ChIP-IT Express Kit and HeLa Chromatin (1.5 x 106 cell equivalents per ChIP) using 10 µg of RNA pol II CTD phospho Ser5 antibody or the equivalent amount of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for the PABPC1 gene. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG (arbitrarily assigned a value of 1) using the ddCT method.

Please check the product details page for more images. Overall 4 images are available for ABIN6972642.