For Research Use Only

Phospho-POLR2A (Ser2) Polyclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:30888-1-AP

Basic Information

Catalog Number:
30888-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC137231

GeneID (NCBI):
5430

UNIPROT ID:
P24928

Full Name:
polymerase (RNA) II (DNA directed) polypeptide A, 220kDa

Calculated MW:
1970 aa, 217 kDa

Observed MW:
250 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, mouse

Positive Controls:

WB : C2C12 cells, λ phosphatase treated C2C12 cells

Background Information

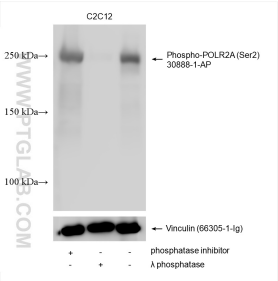
DNA-directed RNA polymerase II subunit RPB1 is the catalytic core component of DNA-dependent RNA polymerase II (Pol II). So that the information encoded in DNA can be used, RNA polymerase II makes copies of specific genes. To ensure that RNA polymerase II copies the correct genes at the correct time, a group of regulatory proteins are needed to control its activity. Many of these proteins interact with RNA polymerase II at a region known as the C-terminal domain, or CTD for short. For example, before RNA polymerase can make a full copy of a gene, a small molecule called a phosphate group must first be added to CTD at specific units known as Ser2. (PMID: 31385803)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Phosphatase inhibitor treated C2C12 cells, λ phosphatase treated C2C12 cells, and non-treated C2C12 cells were subjected to SDS PAGE followed by western blot with 30888-1-AP (Phospho-POLR2A (Ser2) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.