

For Research Use Only

Phospho-POLR2A (Ser5) Recombinant antibody, PBS Only

Catalog Number: 84834-1-PBS



Basic Information

Catalog Number:

84834-1-PBS

Concentration:

1 mg/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:

270 kDa

Purification Method:

Protein A purification

CloneNo.:

241914E5

Applications

Tested Applications:

WB, FC (Intra), Indirect ELISA

Species Specificity:

human

Background Information

RNA Pol II consists of 12 subunits and is responsible for the expression of mRNA and lincRNA genes within cells. The subunits of RNA polymerases have been shown to play specific roles in Pol II CTD dephosphorylation, tissue-specific transcription, mRNA decay, and translation. Pol II transcription involves initiation through recruitment and CTD serine 5 phosphorylation, elongation with CTD serine 2 phosphorylation, and termination. (PMID: 38842922)

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

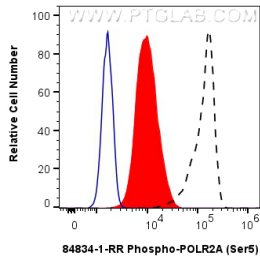
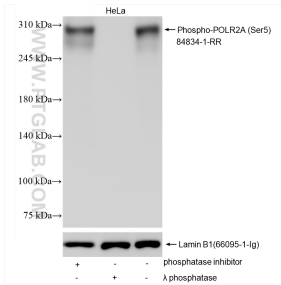
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Selected Validation Data



Non-treated HeLa cells, phosphatase inhibitor treated HeLa cells and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 84834-1-RR (Phospho-POLR2A (Ser5) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 84834-1-PBS in a different storage buffer formulation.

1×10^6 HeLa cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.13 ug Phospho-POLR2A (Ser5) Recombinant antibody (84834-1-RR, Clone:241914E5) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody