bsm-62940R **[Primary Antibody]**

Phospho-POLR2A (Ser5) Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 5G8
GeneID: 5430
SWISS: P24928
Target: Phospho-POLR2A (Ser5)

Immunogen: A synthesized peptide derived from human POLR2A around the phosphorylation site of S5: YSPT-pS-PS.

Purification: affinity purified by Protein A

Storage: 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles.

Background: During transcription elongation, Pol II moves on the template as the transcript elongates. Elongation is influenced by the phosphorylation status of the C-terminal domain (CTD) of Pol II largest subunit (RPB1), which serves as a platform for assembly of factors that regulate transcription initiation, elongation, termination and mRNA processing.

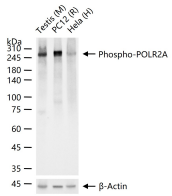
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1:50-100)
ICC/IF (1:50-200)
IP (1:20-50)

Reactivity: Human, Mouse, Rat

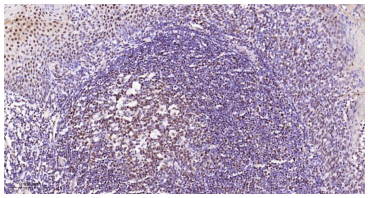
Predicted MW.: 217

Subcellular Location: Nucleus

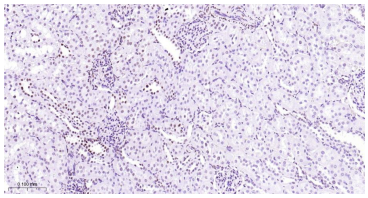
VALIDATION IMAGES



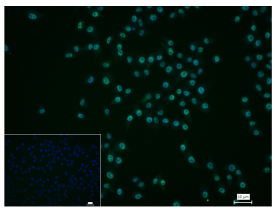
25 ug total protein per lane of various lysates (see on figure) probed with Phospho-POLR2A monoclonal antibody, unconjugated (bsm-62940R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



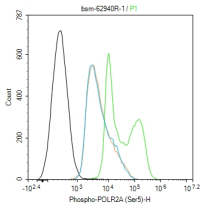
Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-POLR2A (Ser5) Monoclonal Antibody, Unconjugated (bsm-62940R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-POLR2A (Ser5) Monoclonal Antibody, Unconjugated (bsm-62940R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Phospho-POLR2A (Ser5)) monoclonal Antibody, unconjugated (bsm-62940R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The Hela (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-Phospho-POLR2A (Ser5) antibody (bsm-62940R): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-60295G-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.