abcam

ab238450

# Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Carrier free** | Yes |
| **Clone number** | EPR18855 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.997 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## IP

### Tested

| | |
|---|---|
| **Species** | Human |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Rat, Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## ChIP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Rat, Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## Dot

### Tested

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Human, Rat, Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

## WB

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat, Human |
| **Dilution info** | Use at an assay dependent concentration. |

| | |
|---|---|
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Rat, Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | Recommended for mouse only. |

### Expected

| | |
|---|---|
| **Species** | Human, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Saccharomyces cerevisiae |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Synthetic peptide |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information RPO21 pS2

**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. During a transcription cycle, Pol II, general transcription factors and the Mediator complex assemble as the preinitiation complex (PIC) at the promoter. 11-15 base pairs of DNA surrounding the transcription start site are melted and the single-stranded DNA template strand of the promoter is positioned deeply within the central active site cleft of Pol II to form the open complex. After synthesis of about 30 bases of RNA, Pol II releases its contacts with the core promoter and the rest of the transcription machinery (promoter clearance) and enters the stage of transcription elongation in which it moves on the template as the transcript elongates. Pol II appears to oscillate between inactive and active conformations at each step of nucleotide addition. 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. Pol II is composed of mobile elements that move relative to each other. The core element with the central large cleft comprises RPB3, RBP10, RPB11, RPB12 and regions of RPB1 and RPB2 forming the active center. The clamp element (portions of RPB1, RPB2 and RPB3) is connected to the core through a set of flexible switches and moves to open and close the cleft. A bridging helix emanates from RPB1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol II by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition. In elongating Pol II, the lid loop (RPB1) appears to act as a wedge to drive apart the DNA and RNA strands at the upstream end of the transcription bubble and guide the RNA strand toward the RNA exit groove located near the base of the largely unstructured CTD domain of RPB1. The rudder loop (RPB1) interacts with single-stranded DNA after separation from the RNA strand, likely preventing reassociation with the exiting RNA. The cleft is surrounded by jaws: an upper jaw formed by portions of RBP1, RPB2 and RPB9, and a lower jaw, formed by RPB5 and portions of RBP1. The jaws are thought to grab the incoming DNA template, mainly by RPB5 direct contacts to DNA.

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Notes

ab238450 is the carrier-free version of ab193468.

**Patented technology**

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

**Conjugation ready**

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

**Compatibility**
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | RNA polymerase II CTD repeat YSPTSPS also known as the C-terminal domain of RNA polymerase II is a critical component of the RNA polymerase II enzyme commonly referred to as pol II. This domain is characterized by the repetitive sequence YSPTSPS which plays a significant role in the regulation of transcription. The mass of RNA polymerase II including its CTD varies but is essential for its function in gene expression. RNA polymerase II with the CTD is expressed in the nucleus of eukaryotic cells where it orchestrates the transcription of DNA into mRNA. |
| **Biological function summary** | RNA polymerase II CTD repeat YSPTSPS is essential for the transcription progression from initiation to termination. It is part of the large RNA polymerase II complex interacting with various transcription factors and enzymes necessary for RNA processing. The phosphorylation state of the CTD particularly on serine residues regulates interactions with splicing machinery and other RNA processing factors. This modulation ensures the coupling between transcription and RNA processing events controlling mRNA synthesis and maturation. |
| **Pathways** | RNA polymerase II CTD repeat YSPTSPS is important in the mRNA synthesis pathway specifically in transcriptional regulation and processing of nascent RNA transcripts. It interacts with proteins such as the transcription factors TFIIH and TFIIB which aid in promoter recognition and open complex formation. The CTD's dynamic phosphorylation pattern allows integration into multiple cellular pathways most importantly connecting transcription with RNA splicing and transport pathways. |
| **Associated diseases and disorders** | Abnormal function or mutations in RNA polymerase II CTD repeat YSPTSPS associate with diseases such as transcription-related syndromes and certain cancers. Deficient CTD phosphorylation can lead to improper mRNA processing resulting in neural developmental disorders. Additionally its interaction with proteins like CDK7 which phosphorylates the CTD links it to tumors where transcriptional dysregulation is a hallmark. Understanding the CTD's role in these diseases provides insight into therapeutic targets and strategies for intervention. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

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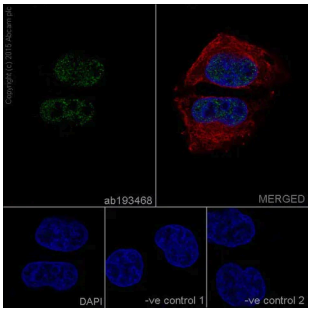
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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## 14 product images




### Immunocytochemistry/ Immunofluorescence - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

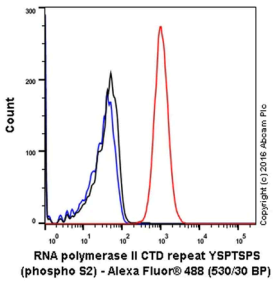
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on HeLa cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:-

-ve control 1: ab193468 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

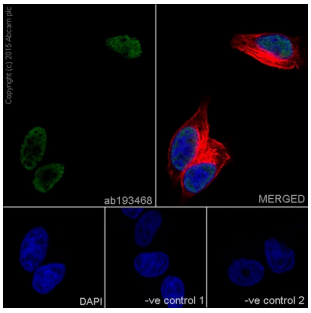
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).




## Flow Cytometry (Intracellular) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Flow Cytometry (Intracellular) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labelling RNA polymerase II CTD repeat YSPTSPS antibody (phospho S2) (red) with purified ab193468 at a dilution of 1/70. Goat anti rabbit IgG (Alexa Fluor® 488) was used as the secondary antibody at 1/2000. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Isotype control antibody was Rabbit monoclonal IgG (black). The blue line shows cells without incubation with primary antibody and secondary antibody.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).




## Immunocytochemistry/ Immunofluorescence - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

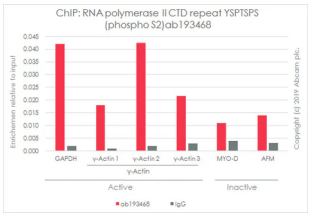
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (Human breast adenocarcinoma cell line) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on MCF7 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:-

-ve control 1: ab193468 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

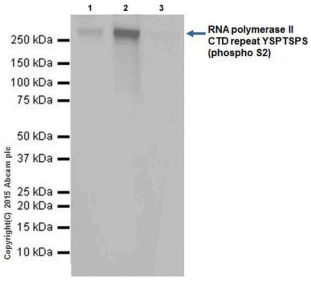
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).




## ChIP - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

Chromatin was prepared from HeLa cells according to the Abcam Dual-X-ChIP protocol. Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab193468 (red), or 5 µg of rabbit normal IgG ab172730 (gray) and 20 µL of Protein A/G sepharose beads. The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).
Primers and probes are located in the first kb of the transcribed region
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).




## Immunoprecipitation - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab193468 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab193468 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.
Lane 1: HeLa whole cell lysate 10µg (Input).

Lane 2: ab193468 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab193468 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

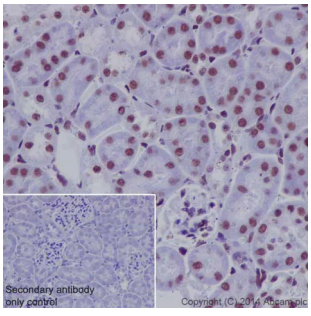
Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).

All lanes:
Immunoprecipitation - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] (ab193468)

Predicted band size: 217 kDa

Observed band size: 270 kDa




## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

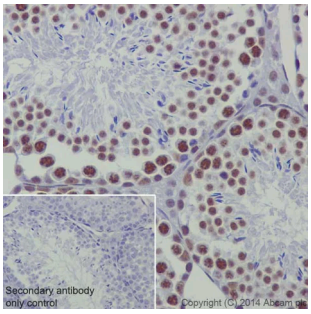
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on epithelium cells and glomerulus cells of mouse kidney is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



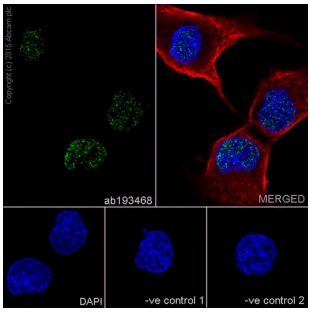

## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on mouse testis is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.




## Immunocytochemistry/ Immunofluorescence - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

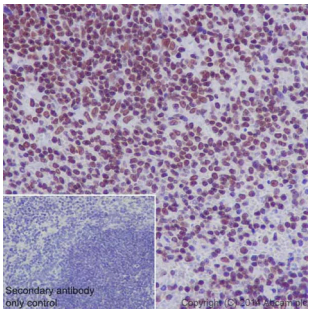
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-12 (Rat adrenal gland pheochromocytoma) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on PC-12 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:-

-ve control 1: ab193468 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).



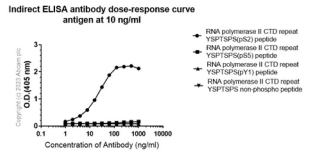

## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab193468 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Nuclear staining on mouse spleen is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).

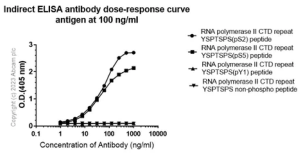
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.




## Indirect ELISA - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

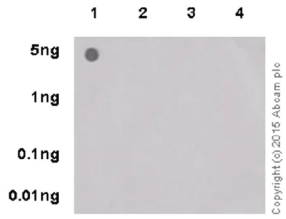
This data was developed using the same antibody clone in a different buffer formulation (ab193468). Indirect ELISA using ab193468 and secondary antibody Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at 1/2500 dilution. Antigens were at 10ng/mL

concentration RNA polymerase II CTD repeat YSPTSPS(pS2) peptide, RNA polymerase II CTD repeat YSPTSPS(pS5) peptide, RNA polymerase II CTD repeat YSPTSPS(pY1) peptide, RNA polymerase II CTD repeat YSPTSPS non-phospho peptide




## Indirect ELISA - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

This data was developed using the same antibody clone in a different buffer formulation (ab193468). Indirect ELISA using ab193468 and secondary antibody Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at 1/2500 dilution. Antigens were at 100ng/mL concentration RNA polymerase II CTD repeat YSPTSPS(pS2) peptide, RNA polymerase II CTD repeat YSPTSPS(pS5) peptide, RNA polymerase II CTD repeat YSPTSPS(pY1) peptide, RNA polymerase II CTD repeat YSPTSPS non-phospho peptide



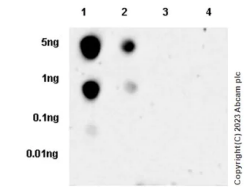

## Dot Blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

Lane 1: RNA polymerase II CTD repeat YSPTSPS (phospho S2) phospho peptide
Lane 2: RNA polymerase II CTD repeat YSPTSPS non-phospho peptide (peptide of ab193468)
Lane 3: RNA polymerase II CTD repeat YSPTSPS (phospho S5) phospho peptide
Lane 4: RNA polymerase II CTD repeat YSPTSPS non-phospho peptide (peptide of ab193467)
Labeled using ab193468 at 1/1000 dilution (0.8 ug/ml), followed by Goat Anti-Rabbit IgG H&L (HRP) secondary antibody (ab97051) at 1/100000 dilution.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

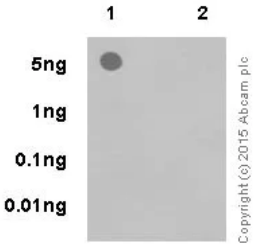
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).




## Dot Blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

This data was developed using the same antibody clone in a different buffer formulation (ab193468). Labeled using ab193468 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) secondary antibody (ab97051) at 1/100000 dilution. Blocking/Dilution buffer: 5% NFDM/TBST. Exposure time: 3 minutes. Lane 1:  RNA polymerase II CTD repeat YSPTSPS (pS2) phospho peptide Lane 2:  RNA polymerase II CTD repeat YSPTSPS (pS5) phospho peptide Lane 3: RNA polymerase II CTD repeat YSPTSPS (pY2) phospho peptide Lane 4:  RNA polymerase II CTD repeat YSPTSPS non-phospho peptide
All lanes:
Dot Blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] (ab193468)

Exposure time: 3min




# Dot Blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855] - BSA and Azide free (ab238450)

Dot blot analysis of RNA polymerase II CTD repeat YSPTSPS (phospho S2) peptide (Lane 1) and non-phospho peptide (Lane 2) labeled using ab193468 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody (ab97051) at 1/100000 dilution. Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab193468).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.