abcam

ab238146

Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade

Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146) is a rabbit monoclonal antibody for **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF, ChIP, Dot Blot**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR18855-87
Purification technique	Affinity purification Protein A
Concentration	0.869 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

ChIP

Tested

Species	Human
Dilution info	5 µg for 25 µg chromatin
Notes	-

Expected

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

Dot

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

WB

Tested

Species	Mouse
Dilution info	1/2000
Notes	-

Species	Rat
Dilution info	1/2000
Notes	-

Species	Human
Dilution info	1/2000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ChIP-seq

Tested

Species	Human
Dilution info	4 µg for 30 µg chromatin
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/600
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000

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

Species	Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information POLR2A pS2

Function

Catalytic core component of RNA polymerase II (Pol II), a DNA-dependent RNA polymerase which synthesizes mRNA precursors and many functional non-coding RNAs using the four ribonucleoside triphosphates as substrates (By similarity) (PubMed:23748380, PubMed:27193682, PubMed:30190596, PubMed:9852112). Pol II-mediated transcription cycle proceeds through transcription initiation, transcription elongation and transcription termination stages. During transcription initiation, Pol II pre-initiation complex (PIC) is recruited to DNA promoters, with focused-type promoters containing either the initiator (Inr) element, or the TATA-box found in cell-type specific genes and dispersed-type promoters that often contain hypomethylated CpG islands usually found in housekeeping genes. Once the polymerase has escaped from the promoter it enters the elongation phase during which RNA is actively polymerized, based on complementarity with the template DNA strand. Transcription termination involves the release of the RNA transcript and polymerase from the DNA (By similarity) (PubMed:23748380, PubMed:27193682, PubMed:28108474, PubMed:30190596, PubMed:9852112). Forms Pol II active center together with the second largest subunit POLR2B/RPB2. Appends one nucleotide at a time to the 3' end of the nascent RNA, with POLR2A/RPB1 most likely contributing a Mg(2+)-coordinating DxDGD motif, and POLR2B/RPB2 participating in the coordination of a second Mg(2+) ion and providing lysine residues believed to facilitate Watson-Crick base pairing between the incoming nucleotide and template base. Typically, Mg(2+) ions direct a 5' nucleoside triphosphate to form a phosphodiester bond with the 3' hydroxyl of the preceding nucleotide of the nascent RNA, with the elimination of pyrophosphate. The reversible pyrophosphorolysis can occur at high pyrophosphate concentrations (By similarity) (PubMed:30190596, PubMed:8381534, PubMed:9852112). Can proofread the nascent RNA transcript by means of a 3' -> 5' exonuclease activity. If a ribonucleotide is mis-incorporated, backtracks along the template DNA and cleaves the phosphodiester bond releasing the mis-incorporated 5'-ribonucleotide (By similarity) (PubMed:8381534). Through its unique C-terminal domain (CTD, 52 heptapeptide tandem repeats) serves as a platform for assembly of factors that regulate transcription initiation, elongation and termination. CTD phosphorylation on Ser-5 mediates Pol II promoter escape, whereas phosphorylation on Ser-2 is required for Pol II pause release during transcription elongation and further pre-mRNA processing. Additionally, the regulation of gene expression levels depends on the balance between methylation and acetylation levels of the CTD-lysines. Initiation or early elongation steps of transcription of growth-factor-induced immediate early genes are regulated by the acetylation status of the CTD. Methylation and dimethylation have a repressive

effect on target genes expression. Cooperates with mRNA splicing machinery in co-transcriptional 5'-end capping and co-transcriptional splicing of pre-mRNA (By similarity) (PubMed:24207025, PubMed:26124092). RNA-dependent RNA polymerase that catalyzes the extension of a non-coding RNA (ncRNA) at the 3'-end using the four ribonucleoside triphosphates as substrates. An internal ncRNA sequence near the 3'-end serves as a template in a single-round Pol II-mediated RNA polymerization reaction. May decrease the stability of ncRNAs that repress Pol II-mediated gene transcription. (Microbial infection) Acts as an RNA-dependent RNA polymerase when associated with small delta antigen of Hepatitis delta virus, acting both as a replicase and transcriptase for the viral RNA circular genome.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF), ChIP, Dot Blot in Human, Mouse, Rat samples.

What is the molecular weight of RNA polymerase II CTD repeat YSPTSPS?
Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) [EPR18855-87] - ChIP Grade (ab238146) specifically detects a band for RNA polymerase II CTD repeat YSPTSPS (UniProt: P24928) at a molecular weight of 217kDa.

Other related products
We have a range of other formats of antibody clone [EPR18855-87] also available for your convenience: ab238146, Carrier free - ab255866, PE - ab305755, APC - ab305756, HRP - ab305757, Alkaline Phosphatase - ab308640, Alexa Fluor® 488 - ab309614, Alexa Fluor® 647 - ab309980, Alexa Fluor® 594 - ab310340, Alexa Fluor® 555 - ab311862, Alexa Fluor® 568 - ab312331, Alexa Fluor® 750 - ab321486

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.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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

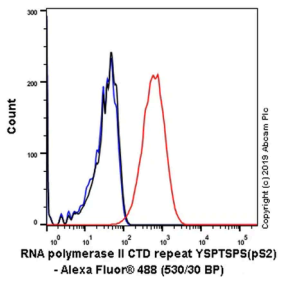
We do not recommend this combination. It is not covered by our product promise.

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.

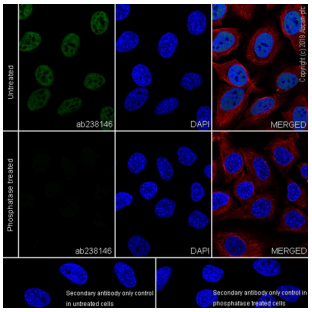
15 product images



Flow Cytometry (Intracellular) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

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

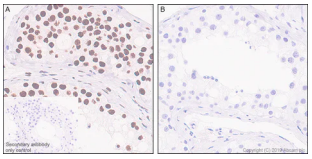
Intracellular flow cytometric analysis of4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/600 (red) compared with a Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue).
Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077), at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

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 cell line from cervix adenocarcinoma) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/500 dilution, followed by a Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining in HeLa cell line, the signal decreased after phosphatase treatment at 37☒ for 2h. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).
Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

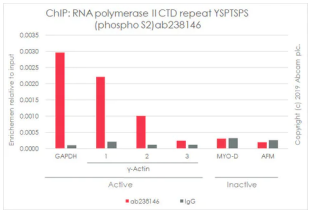
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/2000 dilution, followed by a Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human testis without alkaline phosphatase treatment (panel A). No signal was detected when treated with alkaline phosphatase (panel B). Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238146 for 30 mins at room temperature.

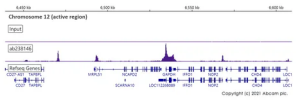
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



ChIP - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

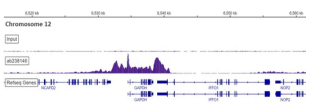
Chromatin was prepared from HeLa (human epithelial cell line from cervix adenocarcinoma) cells according to the Abcam X-ChIP protocol. Cells were fixed with 1% formaldehyde for 10min.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab238146 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). 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.



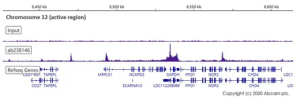
ChIP-sequencing - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 30 µg of chromatin and 4 µg of ab238146. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. ChIP-Seq validation performed with ChIP-Kit Transcription Factors ChIP-Seq (ab270813).
Additional screenshots of mapped reads can be downloaded here.



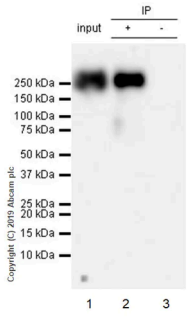
ChIP-sequencing - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 30 µg of chromatin and 4 µg of Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146). ChIP DNA was sequenced on the Illumina NextSeq 500 to a depth of 30 million reads. ChIP-Seq validation performed by Active Motif, Carlsbad, CA.
Additional screenshots of mapped reads can be downloaded here.



ChIP-sequencing - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 107 cells and 4 µg of Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146). ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads.
Additional screenshots of mapped reads can be downloaded here.



Immunoprecipitation - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

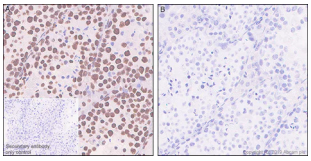
RNA polymerase II CTD repeat YSPTSPS (phospho S2) was immunoprecipitated from 0.35 mg of HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab238146 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab238146 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used as secondary antibody at 1/5000 dilution.
Lane 1: HeLa whole cell lysate 10 µg (Input).
Lane 2: ab237146 IP in HeLa whole cell lysate.
Lane 3: : Rabbit monoclonal IgG (ab172730) instead of ab238146 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 7 seconds.

All lanes:
Immunoprecipitation - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

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 [EPR18855-87] - ChIP Grade (ab238146)

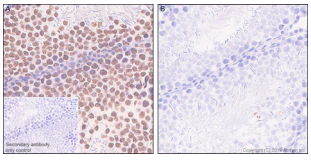
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on mouse testis without alkaline phosphatase treatment (panel A). No signal was detected when treated with alkaline phosphatase (panel B). Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238146 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

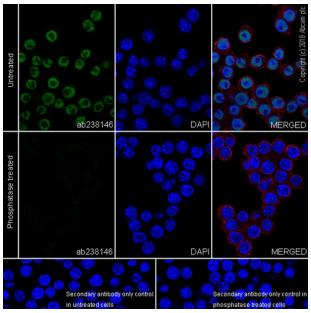
RNA polymerase II CTD repeat YSPTSPS (phospho S2) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Immunohistochemical analysis of paraffin-embedded rat testis tissue labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on rat testis without alkaline phosphatase treatment (panel A). No signal was detected when treated with alkaline phosphatase (panel B). Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238146 for 30 mins at room temperature.

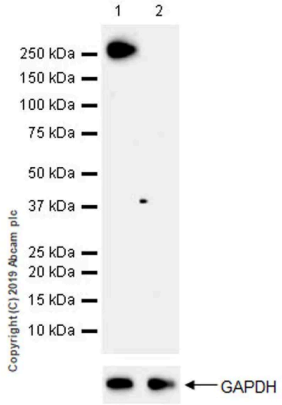
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunocytochemistry/ Immunofluorescence - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

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 RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) cells labeling RNA polymerase II CTD repeat YSPTSPS (phospho S2) with ab238146 at 1/500 dilution, followed by a Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining in RAW 264.7 cell line, the signal decreased after phosphatase treatment at 37☒ for 2h. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).
Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Western blot staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

All lanes:
Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146) at 1/5000 dilution

Lane 1:
HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 2:
HeLa whole cell lysate (phosphatase-treated membrane) at 10 µg

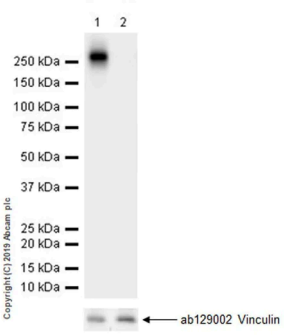
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 217 kDa

Observed band size: 270 kDa

Exposure time: 3min



Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Western blot staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Blocking and dilution buffer: 1% BSA/TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID: 25849141).

All lanes:
Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146) at 1/2000 dilution

Lane 1:
RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate at 10 µg

Lane 2:
RAW 264.7 whole cell lysate (phosphatase-treated membrane) at 10 µg

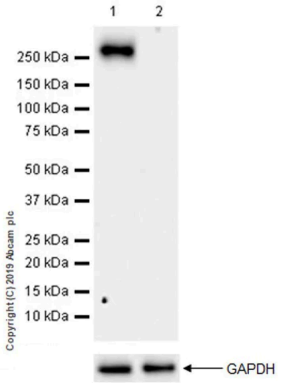
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 217 kDa

Observed band size: 270 kDa

Exposure time: 37s



Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

RNA polymerase II CTD repeat YSPTSPS (phospho S2) Western blot staining using rabbit Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody

Blocking and dilution buffer: 1% BSA/TBST.
All lanes:
Western blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146) at 1/2000 dilution

Lane 1:
PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate at 10 µg

Lane 2:
PC-12 whole cell lysate (phosphatase-treated membrane) at 10 µg

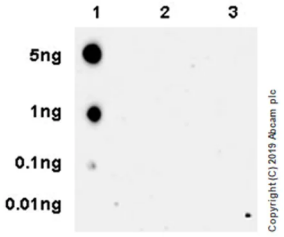
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 217 kDa

Observed band size: 270 kDa

Exposure time: 37s



Dot Blot - Anti-RNA polymerase II CTD repeat YSPTSPS (phospho S2) antibody [EPR18855-87] - ChIP Grade (ab238146)

Dot blot analysis of RNA polymerase II CTD repeat YSPTSPS (phospho S2) labeled with ab238146 at 1/1000 dilution.
Lane 1: RNA polymerase II CTD repeat YSPTSPS (phospho S2) peptide.
Lane 2: RNA polymerase II CTD repeat YSPTSPS non-phospho peptide.
Lane 3: RNA polymerase II CTD repeat YSPTSPS (phospho S5) peptide.

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution was used as secondary antibody.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

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