abcam

ab239364

Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade

Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364) is a rabbit monoclonal antibody detecting Cdk9 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF, ChIP**. 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	EPR22956-37
Purification technique	Affinity purification Protein A
Concentration	0.61 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ChIC/CUT&RUN-seq

Tested

Species	Human
Dilution info	5 µg

Notes	-

Expected

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

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Expected

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

ChIP

Tested

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

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

Expected

Species	Rat

Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

Expected

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

ChIP-seq

Tested

Species	Human
Dilution info	8 µg for 10^7 Cells
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/600
Notes	-

Species	Human
Dilution info	1/600
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse

Dilution info	1/2000
Notes	Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. 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	Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. 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	Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information CDK9

Function

Protein kinase involved in the regulation of transcription (PubMed:10574912, PubMed:10757782, PubMed:11145967, PubMed:11575923, PubMed:11809800, PubMed:11884399, PubMed:14701750, PubMed:16109376, PubMed:16109377, PubMed:20930849, PubMed:28426094, PubMed:29335245). Member of the cyclin-dependent kinase pair (CDK9/cyclin-T) complex, also called positive transcription elongation factor b (P-TEFb), which facilitates the transition from abortive to productive elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II) POLR2A, SUPT5H and RDBP (PubMed:10574912, PubMed:10757782, PubMed:11145967, PubMed:11575923, PubMed:11809800, PubMed:11884399, PubMed:14701750, PubMed:16109376, PubMed:16109377, PubMed:16427012, PubMed:20930849, PubMed:28426094, PubMed:30134174). This complex is inactive when in the 7SK snRNP complex form (PubMed:10574912, PubMed:10757782, PubMed:11145967, PubMed:11575923, PubMed:11809800, PubMed:11884399, PubMed:14701750, PubMed:16109376, PubMed:16109377, PubMed:20930849, PubMed:28426094). Phosphorylates EP300, MYOD1, RPB1/POLR2A and AR and the negative elongation factors DSIF and NELFE (PubMed:10912001, PubMed:11112772, PubMed:12037670, PubMed:16427012, PubMed:20081228, PubMed:20980437, PubMed:21127351, PubMed:9857195). Regulates cytokine inducible transcription networks by facilitating promoter recognition of target transcription factors (e.g. TNF-inducible RELA/p65 activation and IL-6-inducible STAT3 signaling) (PubMed:17956865, PubMed:18362169). Promotes RNA synthesis in genetic programs for cell growth, differentiation and viral pathogenesis (PubMed:10393184, PubMed:11112772). P-TEFb is also involved

in cotranscriptional histone modification, mRNA processing and mRNA export (PubMed:15564463, PubMed:19575011, PubMed:19844166, PubMed:28539972). Modulates a complex network of chromatin modifications including histone H2B monoubiquitination (H2Bub1), H3 lysine 4 trimethylation (H3K4me3) and H3K36me3; integrates phosphorylation during transcription with chromatin modifications to control co-transcriptional histone mRNA processing (PubMed:15564463, PubMed:19575011, PubMed:19844166). Also catalyzes phosphorylation of histone H1.4 (H1-4) at Ser-187' (H1.4S187Ph), a modification associated with transcription activation (PubMed:28539972). The CDK9/cyclin-K complex has also a kinase activity towards CTD of RNAP II and can substitute for CDK9/cyclin-T P-TEFb in vitro (PubMed:21127351). Replication stress response protein; the CDK9/cyclin-K complex is required for genome integrity maintenance, by promoting cell cycle recovery from replication arrest and limiting single-stranded DNA amount in response to replication stress, thus reducing the breakdown of stalled replication forks and avoiding DNA damage (PubMed:20493174). In addition, probable function in DNA repair of isoform 2 via interaction with KU70/XRCC6 (PubMed:20493174). Promotes cardiac myocyte enlargement (PubMed:20081228). RPB1/POLR2A phosphorylation on 'Ser-2' in CTD activates transcription (PubMed:21127351). AR phosphorylation modulates AR transcription factor promoter selectivity and cell growth. DSIF and NELF phosphorylation promotes transcription by inhibiting their negative effect (PubMed:10912001, PubMed:11112772, PubMed:9857195). The phosphorylation of MYOD1 enhances its transcriptional activity and thus promotes muscle differentiation (PubMed:12037670). Catalyzes phosphorylation of KAT5, promoting KAT5 recruitment to chromatin and histone acetyltransferase activity (PubMed:29335245).

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-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364) 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 in Human, Mouse, Rat samples.

What is the molecular weight of Cdk9?
Anti-Cdk9 [EPR22956-37] - ChIP Grade (ab239364) specifically detects a band for Cdk9 (UniProt: Q99J95) at a molecular weight of 43kDa.

Other related products
We have a range of other formats of antibody clone [EPR22956-37] also available for your convenience: ab239364, Carrier free - ab259268

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	Cyclin-dependent kinase 9 (Cdk9) is a serine/threonine protein kinase involved in regulating transcription elongation. It is often referred to as part of the positive transcription elongation factor b (P-TEFb) complex. Cdk9 partners with cyclin T1 T2 or K to form this complex allowing it to phosphorylate the carboxyl-terminal domain (CTD) of RNA polymerase II. The molecular weight of Cdk9 is around 42 kDa. This protein is ubiquitously expressed found in many tissues including the heart liver and brain reflecting its important role.
Biological function summary	Cdk9 functions as a central component of transcriptional processes. It is essential for the transition of RNA polymerase II from the initiation phase to productive elongation. As part of the P-TEFb complex Cdk9 targets negative elongation factors helping relieve their inhibition. This regulation is especially important in the control of genes with strong promoter proximally paused polymerase. By doing so Cdk9 controls the expression of several genes involved in cell growth differentiation and response to stress.
Pathways	Cdk9 plays a significant role in transcription and signal transduction pathways. One important pathway is the NF-κB signaling where Cdk9 regulates the transcription of NF-κB target genes involved in immune response. Another significant pathway is the heat shock response where Cdk9 enhances the

	expression of heat shock proteins helping cells deal with stress. In both pathways it cooperates with other proteins like cyclins and negative elongation factors illustrating its interconnected role in cellular function.
Associated diseases and disorders	Cdk9 has been linked to several conditions most notably cancer and cardiac hypertrophy. Its overactivation can lead to increased transcription of genes involved in proliferation making it a focus for cancer research. Cdk9 is also implicated in cardiac hypertrophy where its activity affects gene expression that can exacerbate the condition. Researchers study its interaction with other proteins such as THZ1 a Cdk9 inhibitor to explore potential therapeutic avenues.

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

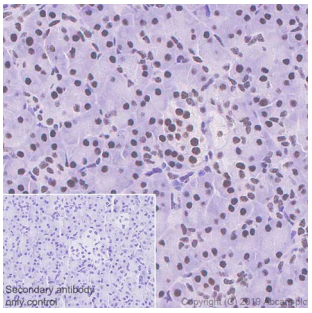
We do not recommend this combination. It is not covered by our product promise.

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

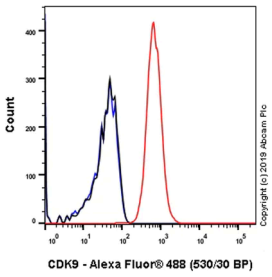


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cdk9 antibody

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling CDK9 with ab239364 at 1/2000 dilution (0.30 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human pancreas (PMID: 28231737) The section was incubated with ab239364 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

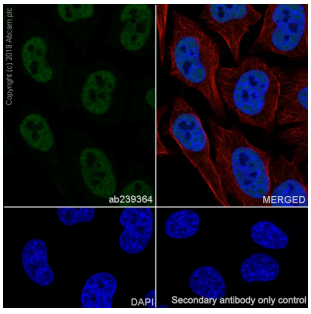
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Flow Cytometry (Intracellular) staining using rabbit Anti-Cdk9 antibody

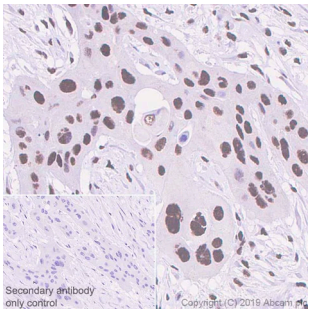
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (Human cervix adenocarcinoma) cells labelling CDK9 with ab239364 at 1/600 (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Cdk9 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling CDK9 with ab239364 at 1/100 (6 ug/ml) dilution, followed by ab150077 AlexaFluor® 488 Goat anti-Rabbit secondary antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing nuclear staining in HeLa cell line is observed. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab239364 anti-CDK9 ab150077 AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000 (2 ug/ml) dilution.

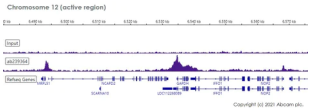


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cdk9 antibody

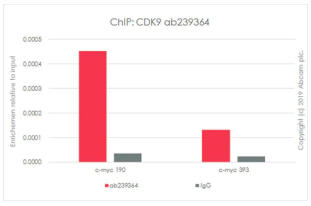
Immunohistochemical analysis of paraffin-embedded Human pancreatic cancer tissue labeling CDK9 with ab239364 at 1/2000 dilution (0.30 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human pancreatic cancer (PMID: 28231737) The section was incubated with ab239364 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use 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.



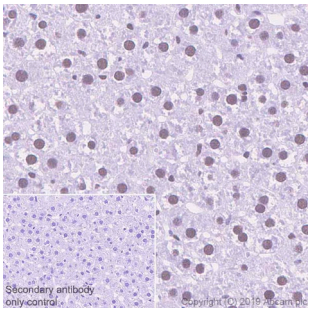
ChIP-sequencing - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 10^7 HeLa cells and 8 µg of ab239364 [EPR22956-37]. 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.



ChIP - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

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 ab239364 (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 (Taqman approach for active and inactive loci, Sybr green approach for heterochromatic loci).
Primers and probes are from paper PMCID: PMC2756882.

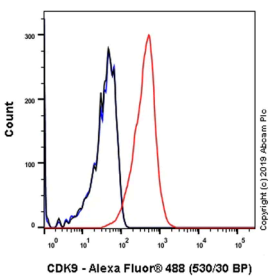


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cdk9 antibody

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling CDK9 with ab239364 at 1/2000 dilution (0.30 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on rat liver (PMID: 9766517, 11282025). The section was incubated with ab239364 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

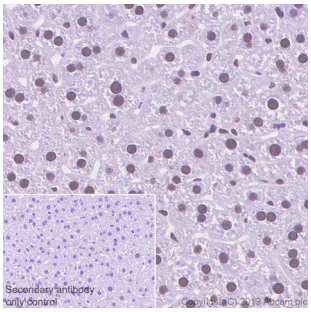
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Flow Cytometry (Intracellular) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Flow Cytometry (Intracellular) staining using rabbit Anti-Cdk9 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (Mouse embryo) cells labelling CDK9 with ab239364 at 1/600 (Red) compared with a Rabbit monoclonal IgG (ab172730) / Black isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

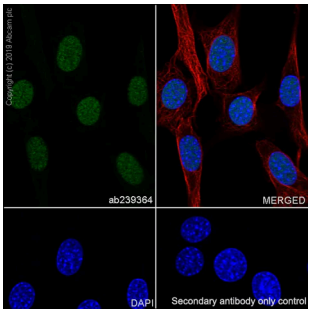


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cdk9 antibody

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling CDK9 with ab239364 at 1/2000 dilution (0.30 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on mouse liver (PMID: 9766517, 11282025) The section was incubated with ab239364 for 10 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

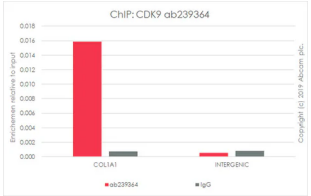
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Cdk9 antibody

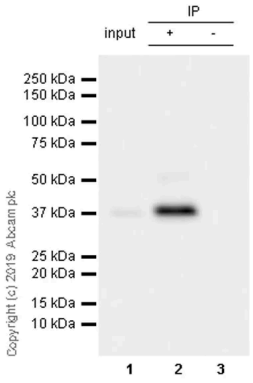
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling CDK9 with ab239364 at 1/100 (6 ug/ml) dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing nuclear staining in NIH/3T3 cell line is observed. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab239364 anti-CDK9 ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 (2 ug/ml) dilution.



ChIP - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Chromatin was prepared from MEF 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 ab239364 (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 (Taqman approach for active and inactive loci, Sybr green approach for heterochromatic loci).

Primers and probes are from paper PMC4103662 (PMID: 23663783)



Immunoprecipitation - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

CDK9 was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast), whole cell lysate 10 ug with ab239364 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab239364 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: NIH/3T3 (mouse embryonic fibroblast), whole cell lysate 10 ug

Lane 2: ab239364 IP in NIH/3T3 whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab239364 in NIH/3T3 whole cell lysate

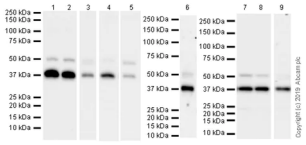
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 6 seconds

All lanes:
Immunoprecipitation - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Predicted band size: 43 kDa

Observed band size: 42 kDa, 55 kDa



Western blot - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

Cdk9 Western blot staining using rabbit Anti-Cdk9 antibody

Blocking and Dilution Buffer and concentration: 5% NFDM/TBST
Exposure times.

Lanes 1-3: 36 seconds Lanes 4-5: 5.5 seconds Lane 6: 3 minutes Lanes 7-8: 15 seconds Lane 9: 48 seconds

All lanes:
Western blot - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell), whole cell lysate at 10 µg

Lane 2:
HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate at 10 µg

Lane 3:
Mouse lung tissue lysate at 20 µg

Lane 4:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 10 µg

Lane 5:
Mouse brain tissue lysate 20 ug

Lane 6:
Rat lung tissue lysate at 20 µg

Lane 7:
PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 10 µg

Lane 8:
NIH/3T3 (mouse embryonic fibroblast), whole cell lysate at 10 µg

Lane 9:
C6 (rat glial tumor glial cell) whole cell lysate at 10 µg

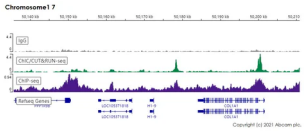
Secondary

Lanes 1, 2, 3, 4, 5, 7, 8 and 9:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Lane 6:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

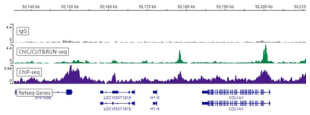
Predicted band size: 43 kDa

Observed band size: 42 kDa, 55 kDa



ChIC/CUT&RUN sequencing - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

CUT&RUN was performed using a ChIC/CUT&RUN pAG-MNAse, 10^5 HeLa cells, and 5µg of ab239364 [EPR22956-37]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The ChIP data was conducted on chromatin prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 10^7 HeLa cells and 4 µg of ab239364 [EPR22956-37]. 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.



ChIC/CUT&RUN sequencing - Anti-Cdk9 antibody [EPR22956-37] - ChIP Grade (ab239364)

ChIC/CUT&RUN was performed using a pAG-MNAse at a final concentration of 700 ng/mL, 2 x 10^5 HeLa (Human cervix adenocarcinoma epithelial cell line) cells and 5 µg of ab239364 [EPR22956-37]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control ab172730 is also shown. The ChIP data was conducted on chromatin prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 10^7 HeLa cells and 8 µg of ab239364. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. Additional screenshots of mapped reads can be found in the Protocol booklet in the Product Protocol section. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.

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