abcam

ab217678

Anti-Rad21 antibody [EPR22506-15] - ChIP Grade

Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678) is a rabbit monoclonal antibody detecting Rad21 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	EPR22506-15
Purification technique	Affinity purification Protein A
Concentration	0.508 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
Notes	5 µg

Expected

Species	Mouse, 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	-

Flow Cyt (Intra)

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	-

IHC-P

Tested

Species	Mouse
Dilution info	1/1000
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	1/1000
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	1/1000
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.

ChIP-seq

Tested

Species	Human
Dilution info	4 µg
Notes	-

Species	Mouse
Dilution info	4 µg
Notes	-

Expected

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

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	-

Target data

See full target information RAD21

Function	Double-strand-break repair protein rad21 homolog. As a member of the cohesin complex, involved in sister chromatid cohesion from the time of DNA replication in S phase to their segregation in mitosis, a function that is essential for proper chromosome segregation, post-replicative DNA repair, and the prevention of inappropriate recombination between repetitive regions (PubMed:11509732). The cohesin complex may also play a role in spindle pole assembly during mitosis (PubMed:11590136). In interphase, cohesins may function in the control of gene expression by binding to numerous sites within the genome (By similarity). May control RUNX1 gene expression (Probable). Binds to and represses APOB gene promoter (PubMed:25575569). May play a role in embryonic gut development, possibly through the regulation of enteric neuron development (By similarity). 64-kDa C-terminal product. May promote apoptosis.

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-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF), ChIP in Human, Mouse, Rat samples.

What is the molecular weight of Rad21?
Anti-Rad21 [EPR22506-15] - ChIP Grade (ab217678) specifically detects a band for Rad21 (UniProt: O60216) at a molecular weight of 72kDa.

Other related products
We have a range of other formats of antibody clone [EPR22506-15] also available for your convenience: ab217678, Carrier free - ab254483, APC - ab305774, HRP - ab305775, Alkaline Phosphatase - ab308643, Alexa Fluor® 488 - ab309618, Alexa Fluor® 647 - ab309984, Alexa Fluor® 594 - ab310345, Alexa Fluor® 555 - ab311867, Alexa Fluor® 568 - ab312336, Alexa Fluor® 750 - ab321393

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	Rad21 also known as double-strand-break repair protein rad21 homolog serves as a component of the cohesin complex. This protein is approximately 123 kDa in size. Rad21 is expressed in a wide range of tissues and cell types particularly in those with high proliferative activity. The protein plays an essential mechanical role by facilitating the cohesion of sister chromatids during cell division ensuring successful chromosome segregation.
Biological function summary	Rad21 is essential in processes beyond chromatid cohesion. It forms part of the cohesin complex which also includes proteins like SMC1 SMC3 and SCC3/SA1 or SA2. This complex is central to maintaining genome stability by participating in DNA repair and regulating gene expression. Through these roles Rad21 contributes to cellular processes such as cell cycle progression and embryonic development.
Pathways	Rad21 integrates into the DNA damage response and cell cycle regulation pathways. The cohesin complex with Rad21 as an important factor acts alongside other proteins such as ATM and ATR in the DNA damage response ensuring the repair of double-strand breaks. Within the cell cycle Rad21 helps coordinate the timing and accuracy of cell division working with cyclin-dependent kinases.
Associated diseases and disorders	Rad21 has been linked to cancer and Cornelia de Lange syndrome. Mutations or dysregulation of Rad21 can result in tumorigenesis due to errors in chromosome segregation and compromised DNA repair. In Cornelia de Lange syndrome cohesin-related proteins like NIPBL and SMC1A also play a role indicating a disruption in the cohesin pathway's function. Understanding Rad21's involvement helps in developing targeted therapies for these conditions.

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

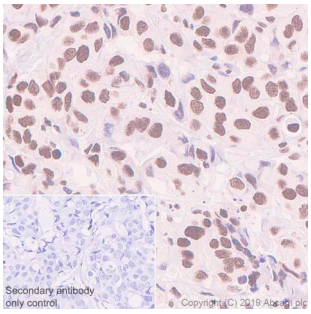
We do not recommend this combination. It is not covered by our product promise.

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.

22 product images

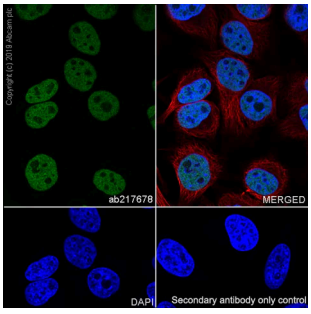


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rad21 antibody

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue labeling Rad21 using ab217678 at 1/1000 dilution for 30 minutes at room temperature, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on the human breast carcinoma (PMID: 21255398) is observed. Counterstained with Hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

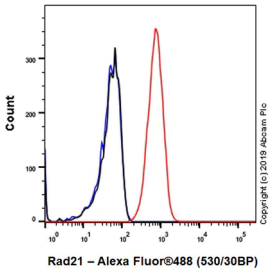
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Rad21 antibody

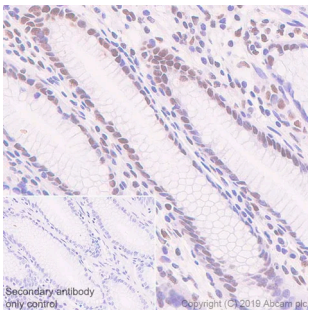
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling Rad21 with ab217678 at 1/100 dilution, followed by an AlexaFluor®488 Goat anti-Rabbit secondary antibody (ab150077) at 1/1000 dilution (green). Confocal image showing nuclear staining in HeLa cell line is observed. The nuvlear counterstain is DAPI (Blue). Tubulin is counterstained using ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is an AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Flow Cytometry (Intracellular) staining using rabbit Anti-Rad21 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (human cervix adenocarcinoma epithelial cell) cell line labeling Rad21 using ab217678 at 1/500 dilution (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). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

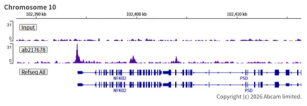


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rad21 antibody

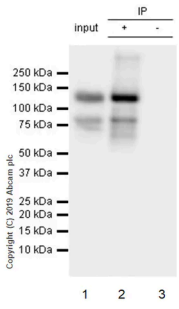
Immunohistochemical analysis of paraffin-embedded human stomach tissue labeling Rad21 using ab217678 at 1/1000 dilution for 30 minutes at room temperature, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human stomach (PMID: 25575569) is observed. Counterstained with Hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

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



ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from MCF7 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab217678 [EPR22506-15]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.



Immunoprecipitation - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 was immunoprecipitated from 0.35mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab217678 at 1/30 dilution. Western blot was performed on the immunoprecipitate using ab217678 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used as the secondary antibody at 1/5000 dilution.
Lane 1: HeLa whole cell lysate 10µg (input)
Lane 2: ab217678 IP in HeLa whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab217678 in HeLa whole cell lysate.

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

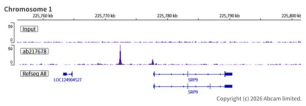
Exposure time: 3 seconds.

Faint band below 75kDa in lane 2 could be Rad21 cleavage product as described in the literature (PMID: 28854249).

All lanes:
Immunoprecipitation - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

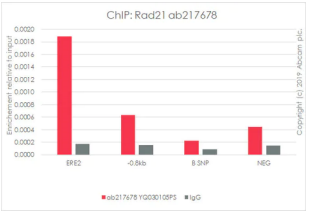
Predicted band size: 72 kDa

Observed band size: 70-135 kDa



ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from MCF7 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab217678 [EPR22506-15]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.

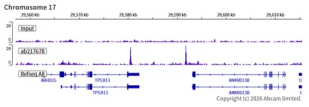


ChIP - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from MCF7 cells according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10min.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab217678 (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).

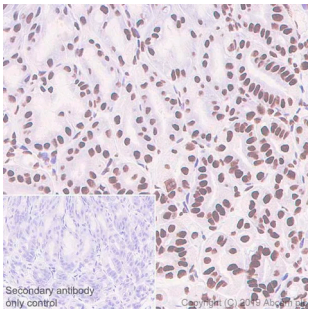
Primers and probes are located in the first kb of the transcribed region.

The observed enrichment profile of Rad21 binding is consistent with what has been described in the literature (PMID: 23145106)



ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from MCF7 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab217678 [EPR22506-15]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.

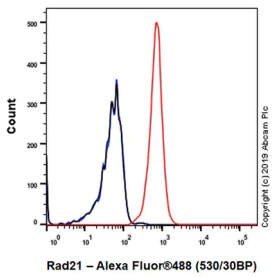


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rad21 antibody

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling Rad21 using ab217678 at 1/1000 dilution for 30 minutes at room temperature, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on mouse stomach (PMID: 25575569) is observed. Counterstained with Hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

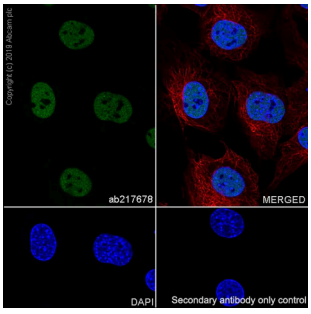
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Flow Cytometry (Intracellular) staining using rabbit Anti-Rad21 antibody

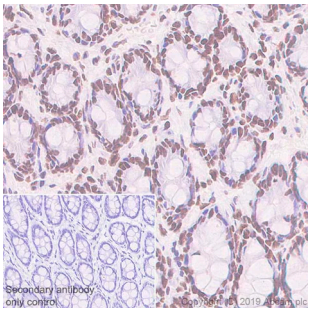
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 (mouse embryonic fibroblast) cell line labeling Rad21 using ab217678 at 1/500 dilution (red) compared with a Rabbit monoclonal IgG (ab172730, Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Rad21 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labeling Rad21 with ab217678 at 1/100 dilution, followed by an AlexaFluor®488 Goat anti-Rabbit secondary antibody (ab150077) at 1/1000 dilution (green). Confocal image showing nuclear staining in NIH/3T3 cell line is observed. The nuvlear counterstain is DAPI (Blue). Tubulin is counterstained using ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is an AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.

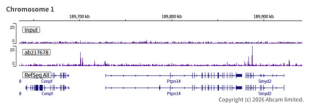


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Rad21 antibody

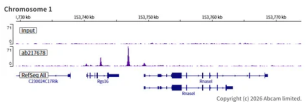
Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling Rad21 using ab217678 at 1/1000 dilution for 30 minutes at room temperature, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on rat colon (PMID: 25575569) is observed. Counterstained with Hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

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



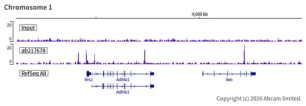
ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from 3T3-L1 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab217678 [EPR22506-15]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.



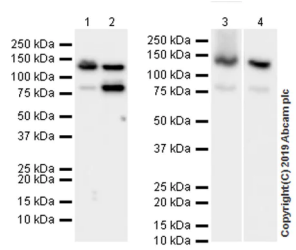
ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

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ChIP-sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Chromatin was prepared from 3T3-L1 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab217678 [EPR22506-15]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.



Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Western blot staining using rabbit Anti-Rad21 antibody

Full length Rad21 is approximately 130 kDa, cleaved Rad21 is approximately 75 kDa. The molecular weight observed are consistent with what has been described in the literature (PMID: 12417729, PMID 21876002).
Blocking/Diluting buffer and concentration: 5% NFDM/TBST

Exposure times:

Lanes1-2: 37 seconds

Lane 3: 5.5 seconds

Lane 4: 48 seconds

All lanes:
Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678) at 1/1000 dilution

Lane 1:
Human heart tissue lysate at 20 µg

Lane 2:
Human fetal kidney tissue lysate at 20 µg

Lane 3:
HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 4:
MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg

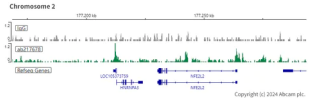
Secondary

Lanes 1 - 2:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Lanes 3 - 4:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

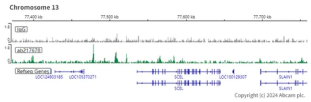
Predicted band size: 72 kDa

Observed band size: 130-75 kDa



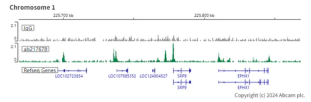
ChIC/CUT&RUN sequencing - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5 x 10^5 HeLa (Human epithelial cells from cervix adenocarcinoma) cells and 5 µg of ab217678 [EPR22506-15]. 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 University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



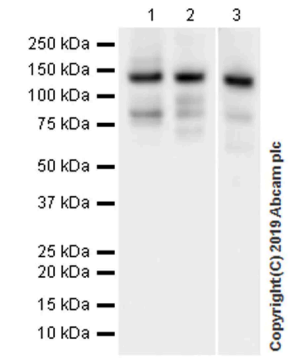
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Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Rad21 Western blot staining using rabbit Anti-Rad21 antibody

Full length Rad21 is approximately 130kDa, cleaved Rad21 is approximately 75 kDa. The molecular weight observed are consistent with what has been described in the literature (PMID: 12417729, PMID 21876002).
Exposure time: 7.7 seconds

Blocking/diluting buffer and concentration: 5% NFDM/TBST

All lanes:
Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678) at 1/1000 dilution

Lane 1:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 20 µg

Lane 2:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

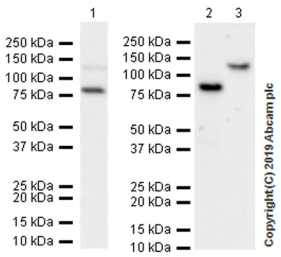
Lane 3:
C6 (rat glial tumor glial cell), whole cell lysate whole cell lysate at 20 µg

Secondary

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

Predicted band size: 72 kDa

Observed band size: 130-75 kDa



Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678)

Full length Rad21 is approximately 130kDa, cleaved Rad21 is approximately 75 kDa. The molecular weight observed are consistent with what has been described in the literature (PMID: 12417729, PMID 21876002).
Blocking/Diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 3 minutes.

All lanes:
Western blot - Anti-Rad21 antibody [EPR22506-15] - ChIP Grade (ab217678) at 1/1000 dilution

Lane 1:
Rat Brain tissue lysate at 20 µg

Lane 2:
Mouse Brain tissue lysate at 20 µg

Lane 3:
Mouse heart tissue lysate at 20 µg

Secondary

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

Predicted band size: 72 kDa

Observed band size: 130-75 kDa

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