


Anti-PCNA antibody ab152112

★★★★☆ **2 Abreviews** **25 References** **画像数 16**

製品の概要

製品名	Anti-PCNA antibody
製品の詳細	Rabbit polyclonal to PCNA
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Pig 
免疫原	Recombinant fragment, corresponding to a region within amino acids 1-253 of PCNA (Uniprot: P12004).
ポジティブ・コントロール	Jurkat, Raji, 293T, A431, HeLa, HepG2, H1299, HCT116, MCF7, NT2D1, PC3, U87 MG, NIH 3T3, JC, BCL1, PC12, A549 and SiHa whole cell lysates; HeLa cells; Human KYSE170 xenograft and Human breast carcinoma tissues.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab152112の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/3000. Predicted molecular weight: 29 kDa.
IHC-P	★★★★☆ (2)	1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Or perform heat mediated antigen retrieval with Tris-EDTA buffer pH 8.
ICC/IF		1/100 - 1/1000.
IP		1/100 - 1/500.

ターゲット情報

機能

This protein is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2.

配列類似性

Belongs to the PCNA family.

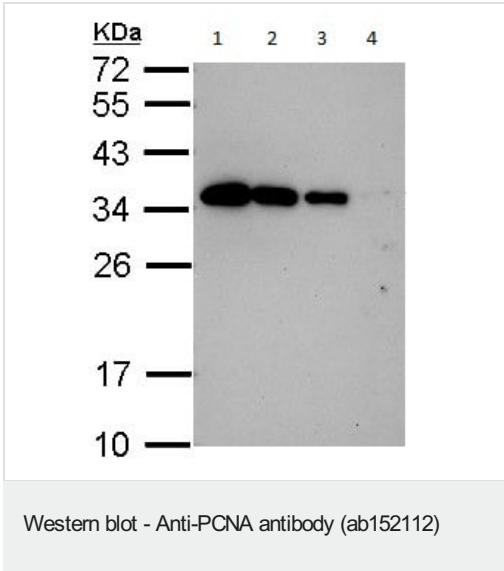
翻訳後修飾

Upon methyl methanesulfonate-induced DNA damage, mono-ubiquitinated by the UBE2B-RAD18 complex on Lys-164. This induces non-canonical polyubiquitination on Lys-164 through 'Lys-63' linkage of ubiquitin moieties by the E2 complex UBE2N-UBE2V2 and the E3 ligases, HLTF, RNF8 and SHPRH, which is required for DNA repair. 'Lys-63' polyubiquitination prevents genomic instability on DNA damage. Monoubiquitination at Lys-164 also takes place in undamaged proliferating cells, and is mediated by the DCX(DTL) complex, leading to enhance PCNA-dependent translesion DNA synthesis.
Acetylated in response to UV irradiation. Acetylation disrupts interaction with NUDT15 and promotes degradation.

細胞内局在

Nucleus. Forms nuclear foci representing sites of ongoing DNA replication and vary in morphology and number during S phase. Together with APEX2, is redistributed in discrete nuclear foci in presence of oxidative DNA damaging agents.

画像



All lanes : Anti-PCNA antibody (ab152112) at 1/3000 dilution

Lane 1 : HCT116 whole cell lysate at 15 µg

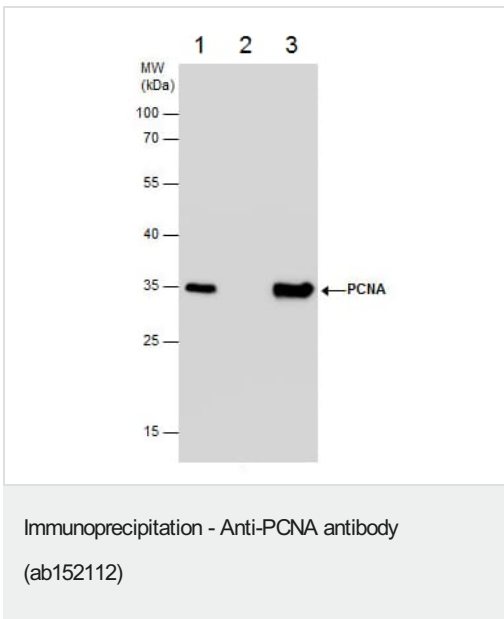
Lane 2 : HCT116 whole cell lysate at 10 µg

Lane 3 : HCT116 whole cell lysate at 5 µg

Lane 4 : HCT116 whole cell lysate at 1 µg

Predicted band size: 29 kDa

12% SDS PAGE

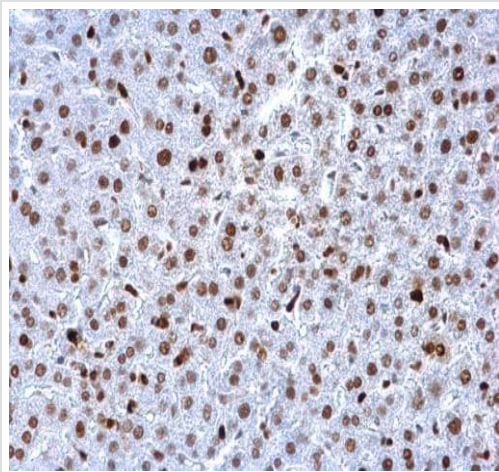


PCBP2 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extracts with 5 µg ab152112. Western blot was performed from the immunoprecipitate using ab152112.

Lane 1: PCBP2 protein only.

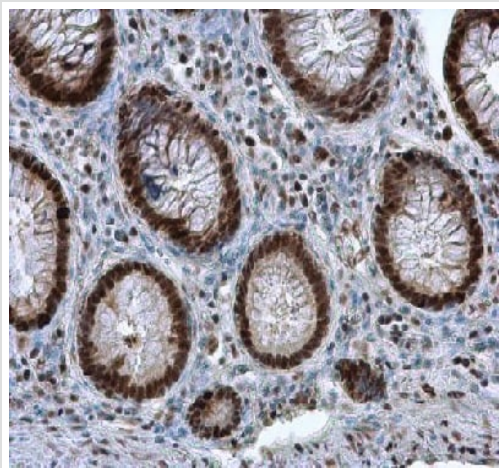
Lane 2: IgG instead of ab152112 in HeLa whole cell extract.

Lane 3: ab152112 IP in HeLa whole cell extract.



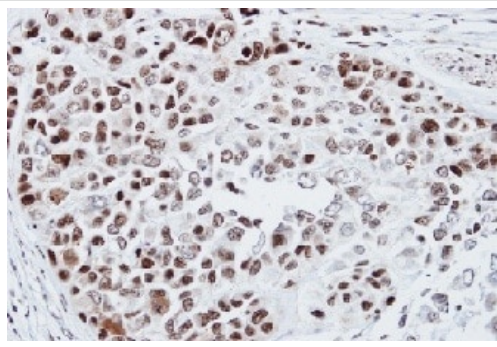
Paraffin-embedded mouse liver tissue stained for PCNA using ab152112 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)



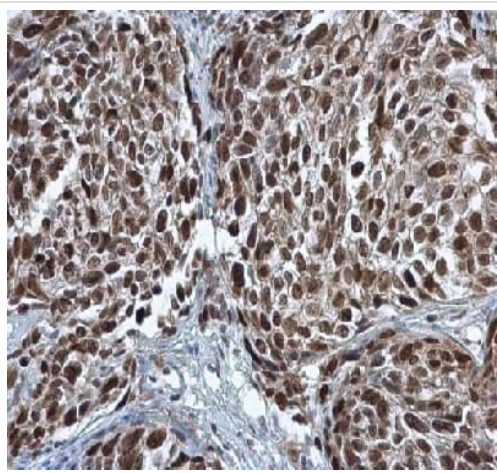
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling PCNA with ab152112 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)



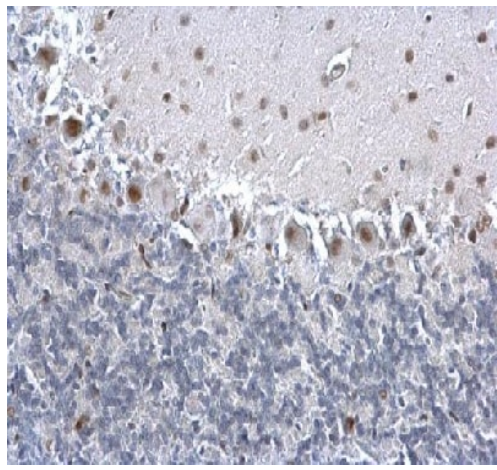
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)

Immunohistochemical analysis of paraffin-embedded Human KYSE170 xenograft tissue labeling PCNA with ab152112 at 1/500 dilution.



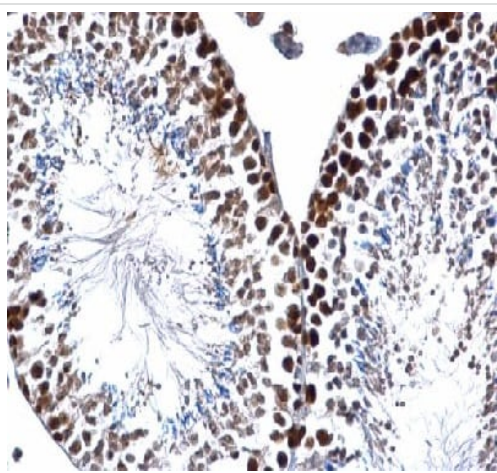
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labeling PCNA with ab152112 at 1/500 dilution.



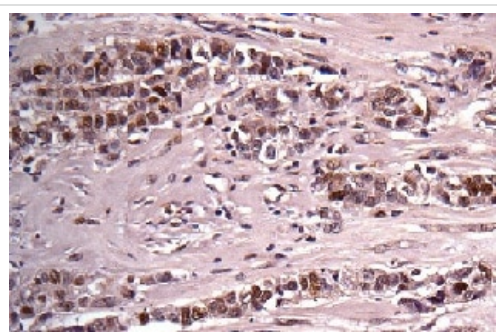
Immunohistochemical analysis of paraffin-embedded Rat hind brain tissue labeling PCNA with ab152112 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)



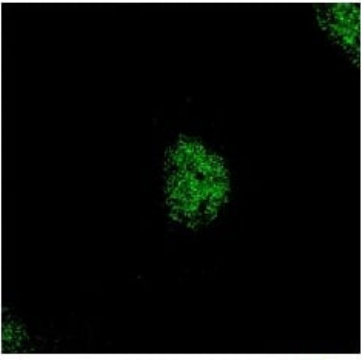
Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling PCNA with ab152112 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)



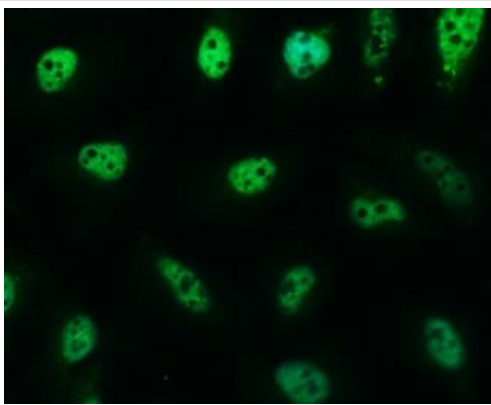
Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling PCNA with ab152112 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody (ab152112)



Immunocytochemistry/ Immunofluorescence - Anti-PCNA antibody (ab152112)

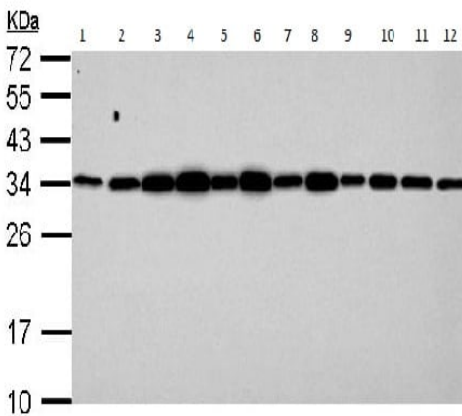
Immunofluorescent analysis of methanol-fixed HeLa cells labeling PCNA with ab152112 at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PCNA antibody (ab152112)

Immunofluorescent analysis of HeLa (Human epithelial cells from cervix adenocarcinoma cell line) labeling PCNA with ab152112 at 1/500 dilution.

Counterstain is Hoechst 33342 (blue).



Western blot - Anti-PCNA antibody (ab152112)

All lanes : Anti-PCNA antibody (ab152112) at 1/3000 dilution

Lane 1 : Jurkat whole cell lysate

Lane 2 : Raji whole cell lysate

Lane 3 : 293T whole cell lysate

Lane 4 : A431 whole cell lysate

Lane 5 : HeLa whole cell lysate

Lane 6 : HepG2 whole cell lysate

Lane 7 : H1299 whole cell lysate

Lane 8 : HCT116 whole cell lysate

Lane 9 : MCF7 whole cell lysate

Lane 10 : NT2D1 whole cell lysate

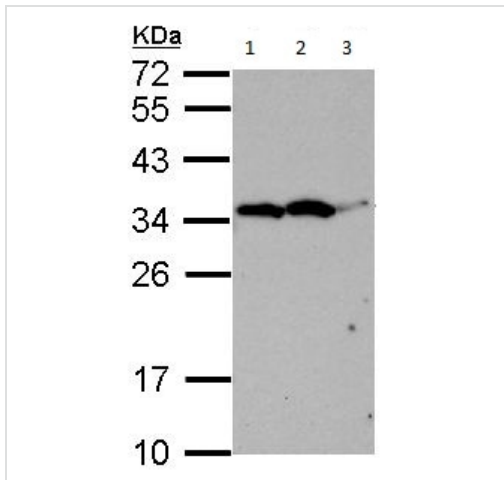
Lane 11 : PC3 whole cell lysate

Lane 12 : U87 MG whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 29 kDa

12% SDS PAGE



Western blot - Anti-PCNA antibody (ab152112)

All lanes : Anti-PCNA antibody (ab152112) at 1/1000 dilution

Lane 1 : NIH 3T3 whole cell lysate

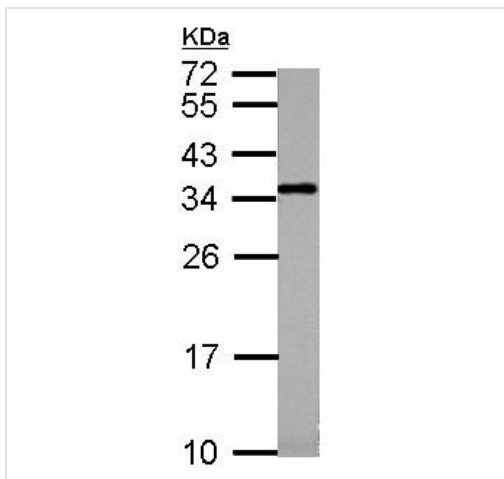
Lane 2 : JC whole cell lysate

Lane 3 : BCL1 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 29 kDa

12% SDS PAGE

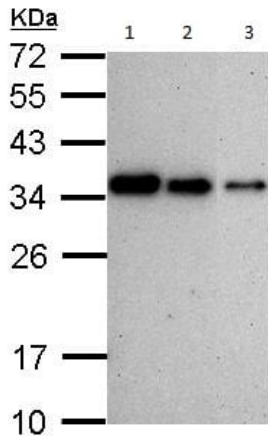


Western blot - Anti-PCNA antibody (ab152112)

Anti-PCNA antibody (ab152112) at 1/1000 dilution + PC12 whole cell lysate at 30 µg

Predicted band size: 29 kDa

12% SDS PAGE



Western blot - Anti-PCNA antibody (ab152112)

All lanes : Anti-PCNA antibody (ab152112) at 1/3000 dilution

Lane 1 : 293T whole cell lysate

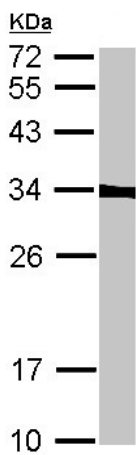
Lane 2 : NIH 3T3 whole cell lysate

Lane 3 : PC12 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 29 kDa

12% SDS PAGE



Western blot - Anti-PCNA antibody (ab152112)

Anti-PCNA antibody (ab152112) at 1/1000 dilution + NIH 3T3 whole cell lysate at 30 µg

Predicted band size: 29 kDa

12% SDS PAGE

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