abcam

Product datasheet

Anti-RPA32/RPA2 antibody [MA34] ab111161

画像数 7

製品の概要

製品名	Anti-RPA32/RPA2 antibody [MA34]
製品の詳細	Mouse monoclonal [MA34] to RPA32/RPA2
由来種	Mouse
アプリケーション	**適用あり:** WB, IHC-P, ICC/IF
種交差性	**交差種:** Rat, Human
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
特記事項	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. 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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99.85% PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	MA34
アイソタイプ	IgM

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ab111161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. Detects a band of approximately 34 kDa (predicted molecular weight: 55 kDa).
IHC-P		1/10 - 1/100.
ICC/IF		1/100 - 1/1000.

ターゲット情報

機能

Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions.
Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.

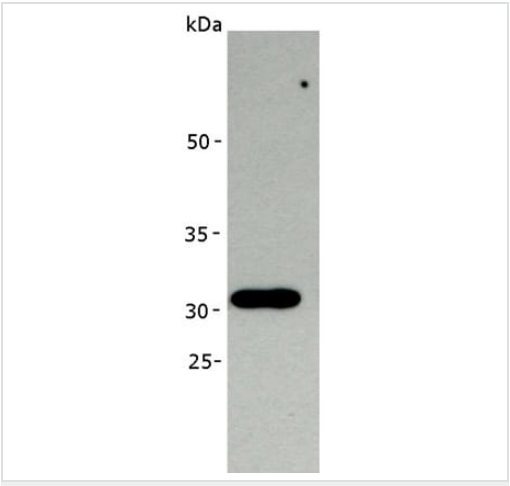
翻訳後修飾

Phosphorylated in a cell-cycle-dependent manner (from the S phase until mitosis).
Phosphorylated by ATR upon DNA damage, which promotes its translocation to nuclear foci. Can be phosphorylated in vitro by PRKDC/DNA-PK in the presence of Ku and DNA, and by CDK1.

細胞内局在

Nucleus. Nucleus > PML body. Also present in PML nuclear bodies. Redistributes to discrete nuclear foci upon DNA damage.

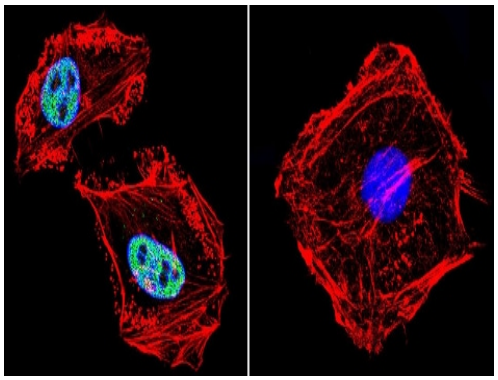
画像



Western blot - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

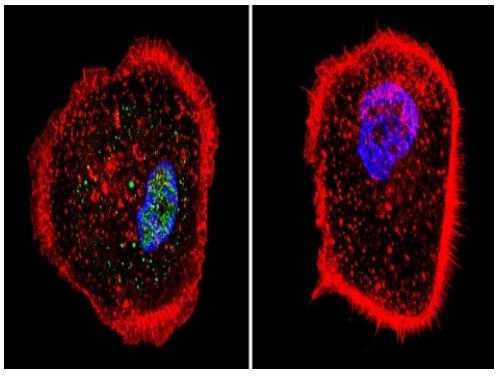
Anti-RPA32/RPA2 antibody [MA34] (ab111161) at 1/500 dilution + Purified RPA32/RPA2 protein (human)

Predicted band size: 55 kDa



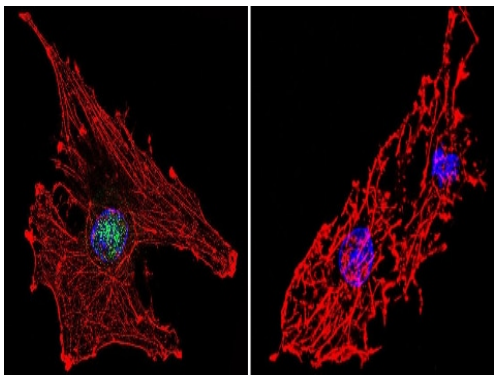
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunofluorescent analysis of RPA32/RPA2 in HeLa cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/200 overnight at 4°C and incubated with a DyLight-488 conjugated secondary antibody. RPA32/RPA2 staining (green) F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



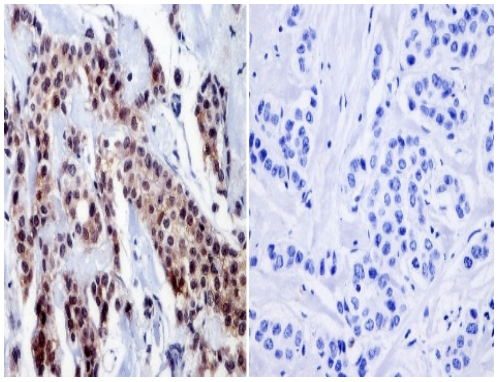
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunofluorescent analysis of RPA32/RPA2 in A431 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/200 overnight at 4°C and incubated with a DyLight-488 conjugated secondary antibody. RPA32/RPA2 staining (green) F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



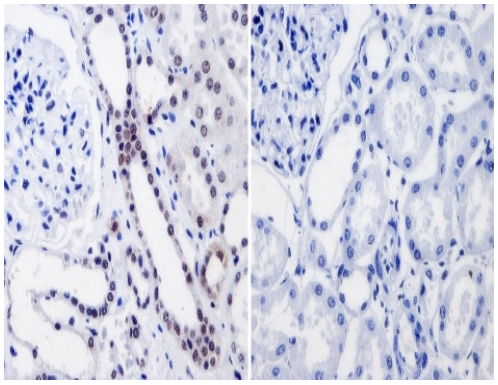
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunofluorescent analysis of RPA32/RPA2 in C6 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/200 overnight at 4°C and incubated with a DyLight-488 conjugated secondary antibody. RPA32/RPA2 staining (green) F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



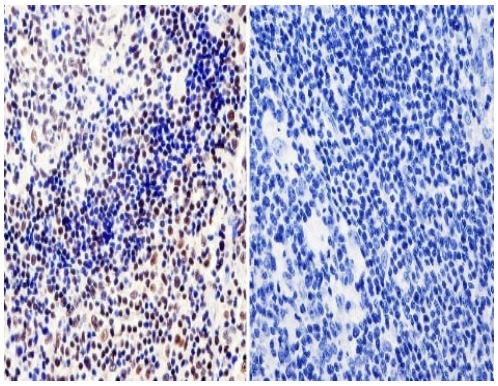
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human breast carcinoma tissue. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer and microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature and probed with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/20 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunohistochemistry was performed on normal biopsies of deparaffinized Human kidney tissue. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer and microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature and probed with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/20 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

Immunohistochemistry was performed on normal biopsies of deparaffinized Human tonsil tissue. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer and microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature and probed with a RPA32/RPA2 monoclonal antibody (ab111161) at a dilution of 1/20 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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