abcam

Product datasheet

Anti-RPA32/RPA2 antibody [MA34] ab111161

7 图像

概述

产品名称	Anti-RPA32/RPA2抗体[MA34]
描述	小鼠单克隆抗体[MA34] to RPA32/RPA2
宿主	Mouse
经测试应用	**适用于:** WB, IHC-P, ICC/IF
种属反应性	**与反应:** Rat, Human
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99.85% PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	MA34
同种型	IgM

应用

The Abpromise guarantee	**Abpromise™承诺保证使用ab111161于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能

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.

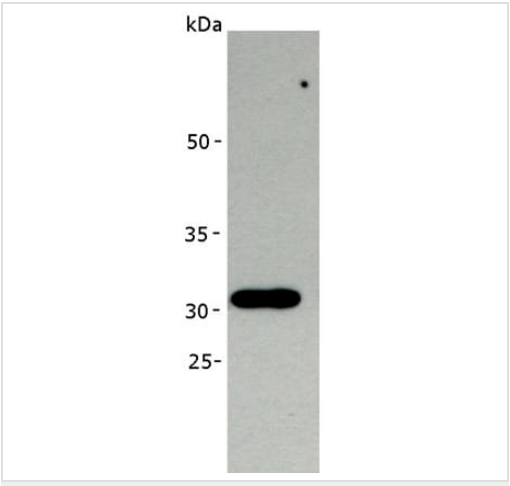
翻译后修饰

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.

细胞定位

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

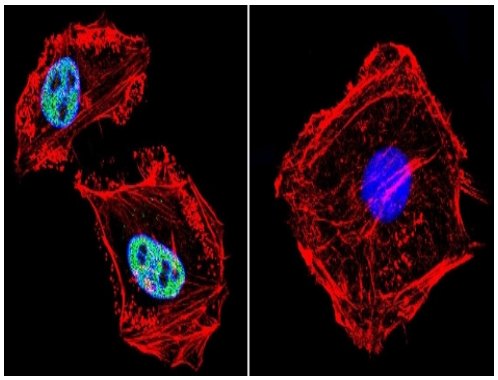
图片



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

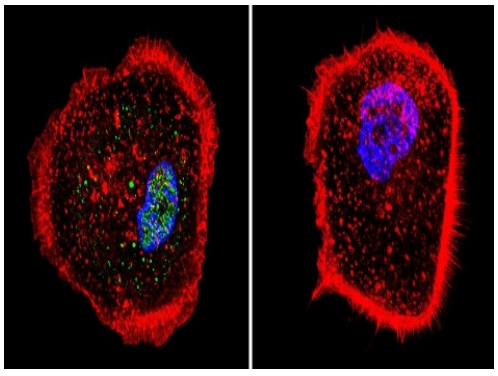
Anti-RPA32/RPA2 antibody [MA34] (ab111161) at 1/500 dilution + Purified RPA32/RPA2 protein (human)

Predicted band size: 55 kDa



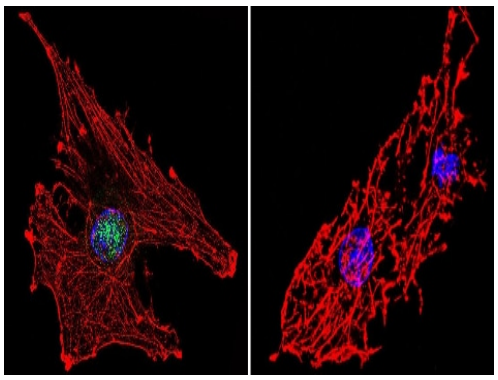
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

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.



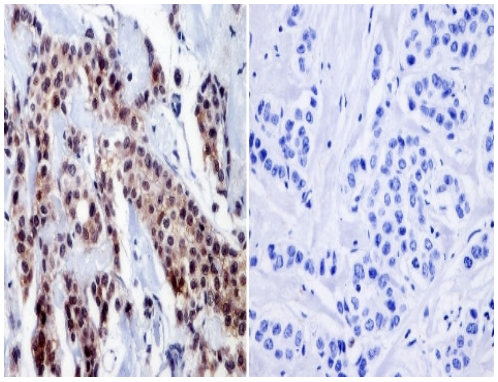
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

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.



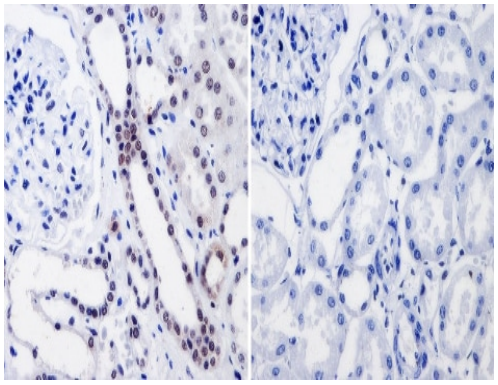
Immunocytochemistry/ Immunofluorescence - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

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.



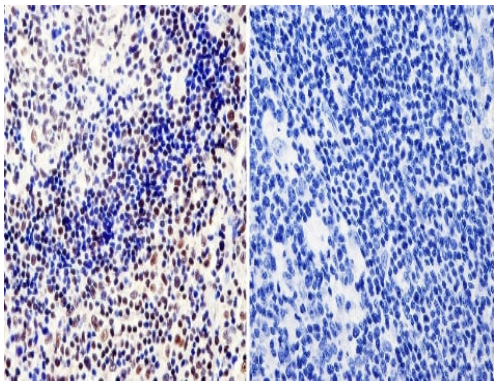
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPA32/RPA2 antibody [MA34] (ab111161)

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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