

bsm-54103R**[Primary Antibody]****BioSS**
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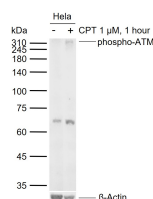
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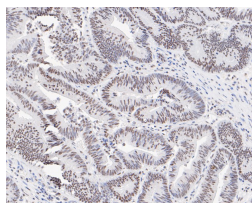
400-901-9800

phospho-ATM (Ser1981) Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 3F10**GeneID:** 472**SWISS:** Q13315**Target:** phospho-ATM (Ser1981)**Immunogen:** A synthesized peptide derived from human ATM around the phosphorylation site of S1981: EG-pS-QS.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

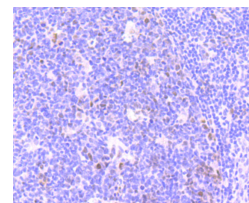
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: ATM is a 370 kDa nuclear phosphoprotein involved in the autosomal recessive disease Ataxia Telangiectasia (AT). ATM belongs to a novel family of proteins associated with cell cycle regulation, apoptosis, and response to DNA damage repair (DNA damage caused by such things as ionizing irradiation activates ATM kinase). The C terminal region has extensive homology to the catalytic domains of Phosphatidylinositol 3 kinases (PI3 kinases).**Applications:** WB (1:500-2000)**IHC-P** (1:50-200)**IHC-F** (1:50-200)**IF** (1:50-200)**ICC/IF** (1:50-200)**Reactivity:** Human**Predicted MW.:** 370 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

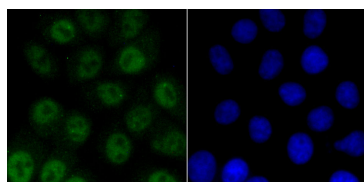
Sample: Lane 1: Normal Human HeLa cell lysates
Lane 2: HeLa cell treated with 1 μ M camptothecin (CPT) for 1 hour
Primary: Anti-phospho-ATM (Ser1981) (bsm-54103R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 370 kDa
Observed band size: 65 kDa



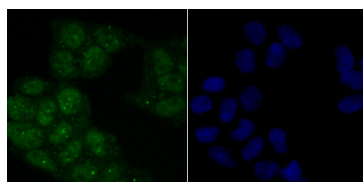
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ATM (Ser1981)) Monoclonal Antibody, Unconjugated (bsm-54103R) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ATM (Ser1981)) Monoclonal Antibody, Unconjugated (bsm-54103R) at 1:50 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ATM(phospho S1981)) monoclonal Antibody, Unconjugated (bsm-54103R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody



HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ATM(phospho S1981)) monoclonal Antibody, Unconjugated (bsm-54103R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

at 37°C for 90 minutes, DAPI (blue, C02-04002)
was used to stain the cell nuclei.

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was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=11.4]** Yuwen Xie. et al. Targeting ATM enhances radiation sensitivity of colorectal cancer by Potentiating radiation-induced cell death and antitumor immunity. J ADV RES. 2024 Dec;: WB ;Mouse,Human. 39708961
- **[IF=7.5]** Baochen Zhou. et al. Quercetin inhibits DNA damage responses to induce apoptosis via SIRT5/PI3K/AKT pathway in non-small cell lung cancer. BIOMED PHARMACOTHER. 2023 Sep;165:115071 WB ;Human. 37390710