

**bs-1370R****[ Primary Antibody ]****Bioss**  
ANTIBODIES

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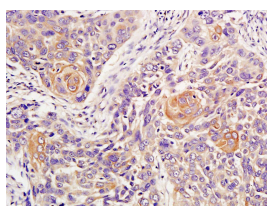
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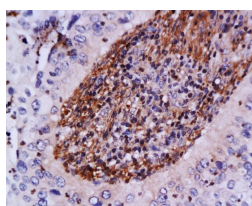
400-901-9800

**ATM Rabbit pAb****— DATASHEET —**

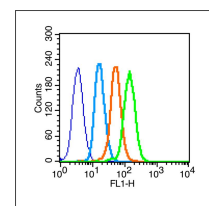
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1µg/Test)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 472	<b>SWISS:</b> Q13315	
<b>Target:</b> ATM		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human ATM: 2681-2750/3066.		<b>Reactivity:</b> Human (predicted: Mouse, Rat)
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 370 kDa
<b>Storage:</b> 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.		<b>Subcellular Location:</b> Cytoplasm ,Nucleus
<b>Background:</b> 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).		

**— VALIDATION IMAGES —**

Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-ATM Polyclonal Antibody, Unconjugated(bs-1370R) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-ATM Polyclonal Antibody, Unconjugated(bs-1370R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line): HeLa (blue). Primary Antibody (green line): Rabbit Anti- ATM antibody (bs-1370R) Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 20 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

**— SELECTED CITATIONS —**

- **[IF=9.5]** Huang Wenyong. et al. Enhanced boron neutron capture therapy (BNCT) through controlled drug release via boron-loaded nanofiber mats. NANO RES. 2024 Jun;;1-14 WB ;Human. 10.1007/s12274-024-6721-3
- **[IF=2.74]** Liu, Jianhui, et al. "Silica nanoparticle exposure inducing granulosa cell apoptosis and follicular atresia in female Balb/c mice." Environmental Science and Pollution Research (2017): 1-12. WB ;="Mouse". 29151191

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

- **[IF=2.1]** Xiuying Wang. et al. Antitumor effects of aconitine in A2780 cells via estrogen receptor  $\beta$ -mediated apoptosis, DNA damage and migration. Mol Med Rep. 2020 Sep;22(3):2318-2328 WB ;Human. 32705198