bs-2272R **[Primary Antibody]**

phospho-ATM (Ser1981) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 472 **SWISS:** Q13315

Target: phospho-ATM (Ser1981)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human ATM around the phosphorylation site of Ser1981: EG(p-S)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).

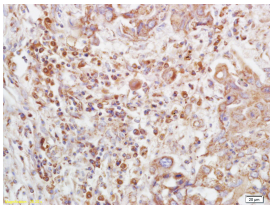
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)

Reactivity: Human (predicted: Mouse, Rat)

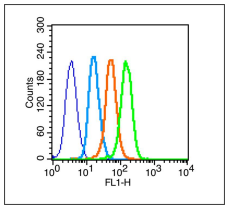
Predicted MW.: 370 kDa

Subcellular Location: Cytoplasm ,Nucleus

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-phospho-ATM(Ser1981) Polyclonal Antibody, Unconjugated(bs-2272R) 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 (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 20 min on ice). Primary Antibody (green line): Rabbit Anti-phospho-ATM(Ser1981) antibody (bs-2272R),Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1μg /test.

SELECTED CITATIONS

- **[IF=5.008]** Yin, H., et al. "The molecular mechanism of G2M cell cycle arrest induced by AFB1 in the jejunum." Oncotarget (2016). IHC ;="Chicken". 27232757
- **[IF=5.008]** Guo, Hongrui, et al. "Dietary NiCl2 causes cell cycle arrest in the broiler's kidney." Oncotarget. (2015) 6.34:35964-77. IHC ;="Chicken". 26440151