bsm-54103R

– DATASHEFT —

[Primary Antibody]

phospho-ATM (Ser1981) Recombinant Rabbit mAb



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Host: Rabbit		Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Recombinant		CloneNo.: 3F10	IHC-P (1:50-200) IHC-F (1:50-200)
GenelD	472	SWISS: Q13315	IF (1:50-200)
Target: ATM (Ser1981)			ICC/IF (1:50-200)
Immunogen: A synthesized peptide derived from human ATM around the phosphorylation site of S1981: EG-pS-QS.			Reactivity: Human
Purification	affinity purified by Prot	ein 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).

- 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: Antiphospho-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; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-ATM (Ser1981) Monoclonal Antibody, Unconjugated (bsm-54103R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Predicted MW.: 370 kDa

Subcellular Location: Cytoplasm ,Nucleus

Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-ATM (Ser1981) Monoclonal Antibody, Unconjugated (bsm-54103R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- [IF=11.4] Yuwen Xie. et al. Targeting ATM enhances radiation sensitivity of colorectal cancer by Potentiating radiationinduced 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