Product datasheet

Anti-ATM Antibody (Clone#BCF-1)

Catalog Number: *BM4091*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
Wuhan East Lake High-tech Development Zone
Web: www.boster.com ***Phone:*** 027-67845390 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-ATM Antibody (Clone#BCF-1)
Gene Name	ATM
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human ATM
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	350 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 Flow Cytometry (FCM): 1:50

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

ATM(ataxia telangiectasia mutated), also known as TEL1 or TELO1, is a serine/threonine protein kinase that is recruited and activated by DNA double-strand breaks. The ATM protein is a member of the phosphatidylinositol 3-kinase family of proteins that respond to DNA damage by phosphorylating key substrates involved in DNA repair and/or cell cycle control. The ATM gene is mapped to chromosome 11q22.3. ATM has an essential role in the reconstitutive capacity of hematopoietic stem cells but is not as important for the proliferation or differentiation of progenitors in a telomere-independent manner. ATM functions directly in the repair of chromosomal DNA double-stranded breaks by maintaining DNA ends in repair complexes generated during lymphocyte gene assembly.

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Reference

Anti-ATM Antibody (Clone#BCF-1)被引用在1文献中。

Selected Validation Data

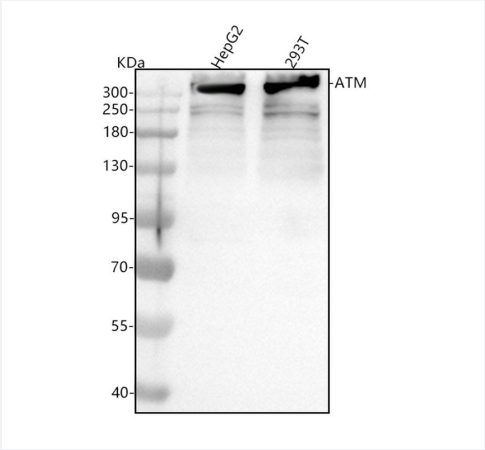
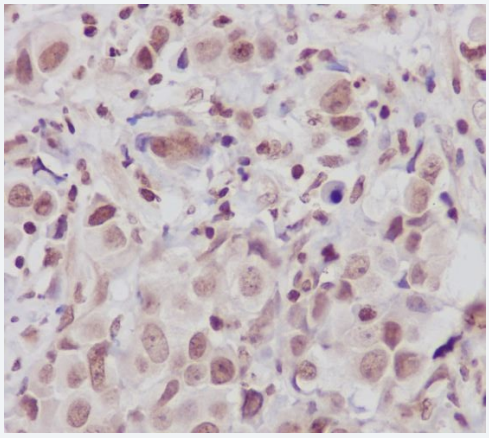
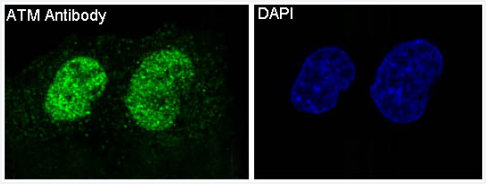


Figure 1. Western blot analysis of anti-ATM antibody (BM4091). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human 293T whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ATM antigen affinity purified monoclonal antibody (BM4091) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ATM at approximately 351 kDa. The expected band size for ATM is at 351 kDa.



Immunohistochemical analysis of paraffin-embedded human breast cancer, using ATM Antibody.



Immunofluorescent analysis of Hela cells, using ATM Antibody.

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