

Phospho-ATM-S1981 Rabbit pAb

Catalog No.: AP0008 **11 Publications**

Basic Information

Observed MW

370kDa

Calculated MW

351kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human, Mouse

Background

The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder.

Recommended Dilutions

WB 1:500 - 1:1000

Immunogen Information

Gene ID

472

Swiss Prot

Q13315

Immunogen

A synthetic phosphorylated peptide around S1981 of human ATM (NP_000042.3).

Synonyms

AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1; Phospho-ATM-S1981

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

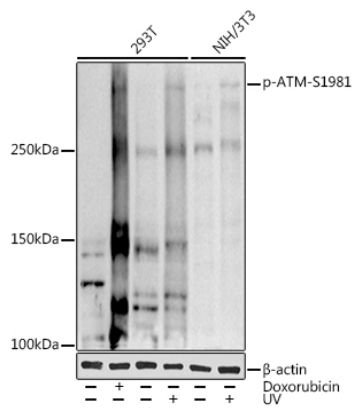
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using (AP0008) at 1:1000 dilution. 293T cells were treated by Doxorubicin (0.5 μ M) at 37°C for 24 hours. 293T cells were treated by UV at room temperature for 15-30 minutes. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.