

ATM

Reactivity: Human

Tested applications: WB IHC ICC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IF 1:50 - 1:100

Calculated MW: 350 kDa

Observed MW: Refer to figures

Immunogen:

Recombinant protein of human ATM

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1;

Catalog #: A10745

Antibody Type:

Monoclonal Antibody

Species: Rabbit

Gene ID: 472

Isotype: IgG

Swiss Prot: Q13315

Purity: Affinity purification

For research use only.

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.

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