Product Datasheet

Phospho-ATM (Ser1981) Antibody

Catalog No: CY5111 Reactivity: Human

Isotype: Rabbit IgG Applications: WB IHC ICC/IF IP

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Information

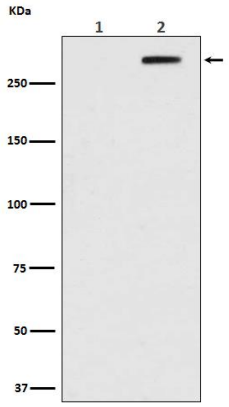
UniProt ID: Q13315
All Names: A-T, mutated; Ataxia telangiectasia mutated; Ataxia telangiectasia mutated homolog; EC 2.7.11.1; kinase ATM; Serine-protein kinase ATM
Form: Liquid
Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity: Affinity-chromatography
Immunogen: A synthesized peptide
Molecular Wt.: 370 kDa

Application

WB: 1:500~1:2000
IHC: 1:50~1:200
ICC/IF: 1:50~1:200
IP: 1:50

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. At least three alternatively spliced transcript variants, which encode distinct isoforms, have been identified.



Western blot analysis of Phospho-ATM (Ser1981) in (1) HEK293 cell lysate; (2) HEK293 cell lysate treated with Doxorubicin.