Human/Mouse/Rat ATM Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF1655V
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human ATM when phosphorylated at S1981. Also detects the comparable phosphorylated sites in mouse ATM (S1987) and rat ATM (S1952).
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human ATM S1981 site
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The Ataxia telangiectasia-mutated (ATM) protein kinase exists as a dimer in the cell nucleus. Changes in DNA structure induced by genotoxic stress lead to activation of ATM and phosphorylation of S1981 in *trans*. Once S1981 is phosphorylated, the dimer dissociates and active ATM monomers signal to downstream targets.

PRODUCT SPECIFIC NOTICES

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