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### Certificate of Analysis

**Product:** Affinity Purified anti-ATM Protein Kinase S1981 [Rabbit]

**Code:** 600-401-398

**Lot #:** 21380

**Size:** 100 µg

**Physical State:** Liquid (sterile filtered)

**Antibody Concentration:** 1.1 mg/ml (by UV absorbance at 280 nm)

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** None

**Preservative:** 0.01% (w/v) Sodium Azide

**Storage Conditions:** Store vial at -20° C. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

**Background Information:** See Bakkenist, C. J. & Kastan, M. B. *Nature* **421**, 499-506 (2003) for a complete presentation of this antibody's specificity and utility.

**Application Note(s):** Affinity purified rabbit anti-ATM has been tested by ELISA, immunofluorescence microscopy, western blotting and biological assays against both the native and recombinant forms of the protein.

**Recommended Dilutions:** This product was assayed by immunoblot and was found to be reactive at a 1:2,000 dilution with native and recombinant human ATM. Use Rockland Immunochemical's HRP Anti-RABBIT IgG (H&L) (DONKEY) MX Bv Ch Gt GP Hs Hu Ms Rt & Sh (code 611-703-127) as a secondary antibody for detection. The researcher should determine optimal titers for other applications.

**Purity and Specificity:** This affinity-purified antibody is directed against human ATM and is useful in determining its presence in various assays. This polyclonal anti-ATM antibody detects native and over-expressed proteins found in various tissues and extracts. Reactivity is observed against human ATM and cross reactivity with ATM from other mammalian sources has not been tested.

**Immunogen:** This antibody was affinity purified from whole rabbit serum prepared by repeated immunizations with a synthetic peptide **S-L-A-F-E-E-G-S-Q-S-T-T-I-S-S** corresponding to aa 1974-1988 of human ATM conjugated to KLH using maleimide.

#### Related Product(s):

<a href="#">#200-301-400</a>	Protein A Purified Mab anti-ATM Protein Kinase pS1981 [Mouse]
<a href="#">#000-000-398</a>	CONTROL PEPTIDE for 600-401-398 anti-ATM Protein Kinase S1981
<a href="#">#000-000-400</a>	CONTROL PEPTIDE for 600-401-400 anti-ATM Protein Kinase pS1981
<a href="#">#600-401-383</a>	Affinity Purified anti-FLAG EPITOPE TAG (Rabbit)
<a href="#">#611-703-127</a>	HRP Anti-Rabbit IgG [H&L] MX10 (DONKEY)
<a href="#">#611-132-122</a>	IRDye800 Anti-Rabbit IgG [H&L] MX10 (GOAT)
<a href="#">#W09-000-360</a>	Human Derived MCF-7 Whole Cell Lysate (Ready-to-Use)
<a href="#">#W09-000-366</a>	Hydrogen Peroxide Stimulated Human Derived MCF-7 Whole Cell Lysate (Ready-to-Use)

#### General References:

Bakkenist, C. J. & Kastan, M. B. (2003). DNA damage activates ATM through intermolecular autophosphorylation and dimer dissociation. *Nature* **421**, 499-506.

**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 326, Gilbertsville, Pennsylvania, USA.