

Datasheet: AHP392

Description:	RABBIT ANTI ATM (aa1980-2338)
Specificity:	ATM (aa1980-2338)
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen		■		
Immunohistology - Paraffin (1)	■			1/50
ELISA			■	
Immunoprecipitation		■		
Western Blotting	■			1/500 - 1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires heat mediated treatment of paraffin sections. Bio-Rad recommend the use of antigen unmasking fluid for this purpose. A two hour incubation with AHP392 is recommended.

Target Species	Human
Species Cross Reactivity	Reacts with: Hamster, Monkey, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Serum - liquid

Antiserum Preparation Antisera to ATM were raised by repeated immunisation of rabbits with highly purified antigen.

Preservative Stabilisers	0.09% Sodium Azide
Immunogen	Recombinant human ATM fragment (amino acids 1980-2338).

External Database Links

UniProt:

[Q13315](#)

[Related reagents](#)

Entrez Gene:[472](#) [ATM](#) [Related reagents](#)

Specificity	Rabbit anti ATM antibody recognizes the human ATM protein, a ~350 kDa polypeptide that is the product of the ATM gene. The ATM gene is defective in Ataxia telangiectasia.
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ATM protein is expressed within the nucleus of all normal cells and is thought to be important in detection of DNA damage.

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| References | <ol style="list-style-type: none">1. Lakin, N. D. <i>et al.</i> (1996) Analysis of the ATM protein in wild-type and ataxia telangiectasia cells. Oncogene 13: 2707-2716.2. Aggarwal, P. <i>et al.</i> (2007) Nuclear accumulation of cyclin D1 during S phase inhibits Cul4-dependent Cdt1 proteolysis and triggers p53-dependent DNA rereplication. Genes Dev. 21: 2908-2922.3. Condon, L.T. <i>et al.</i> (2002) Overexpression of Bcl-2 in squamous cell carcinoma of the larynx: a marker of radioresistance. Int J Cancer. 100: 472-5.4. Ejima, Y. <i>et al.</i> (2000) Aberrant splicing of the ATM gene associated with shortening of the intronic mononucleotide tract in human colon tumor cell lines: a novel mutation target of microsatellite instability. Int J Cancer. 86: 262-8.5. Angèle, S. <i>et al.</i> (2003) Phenotypic cellular characterization of an ataxia telangiectasia patient carrying a causal homozygous missense mutation. Hum Mutat. 21: 169-70.6. Angèle, S. <i>et al.</i> (2003) ATM haplotypes and cellular response to DNA damage: association with breast cancer risk and clinical radiosensitivity. Cancer Res. 63: 8717-25.7. Fernet, M. <i>et al.</i> (2004) Cellular responses to ionising radiation of AT heterozygotes: differences between missense and truncating mutation carriers. Br J Cancer. 90: 866-73.8. Roy, S. <i>et al.</i> (2015) XRCC4/XLF Interaction Is Variably Required for DNA Repair and Is Not Required for Ligase IV Stimulation. Mol Cell Biol. 35 (17): 3017-28. |
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10081 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR54...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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