

## Datasheet: AHP392

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

## Product Details

**RRID** AB\_2290233

### 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](http://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](#)

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**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.

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**

1. Lakin, N.D. *et al.* (1996) Analysis of the ATM protein in wild-type and ataxia telangiectasia cells. [Oncogene. 13 \(12\): 2707-16.](#)
2. Aggarwal, P. *et al.* (2007) Nuclear accumulation of cyclin D1 during S phase inhibits Cul4-dependent Cdt1 proteolysis and triggers p53-dependent DNA rereplication. [Genes Dev. 21 \(22\): 2908-22.](#)
3. Condon, L.T. *et al.* (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. *et al.* (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. *et al.* (2003) Phenotypic cellular characterization of an ataxia telangiectasia patient carrying a causal homozygous missense mutation. [Hum Mutat. 21: 169-70.](#)
6. Angèle, S. *et al.* (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. *et al.* (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. *et al.* (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 #10081 available at:  
10081: <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](#)

Goat Anti Rabbit IgG (H/L) (STAR124...)   [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)   [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)

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 \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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