

Datasheet: AHP2555

Description:	RABBIT ANTI ATM (pSer1981)
Specificity:	ATM (pSer1981)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Purified IgG - liquid

Antiserum Preparation Antiserum to ATM (pSer1981) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative 0.02% Sodium Azide

Stabilisers 50% Glycerol

Immunogen Phospho specific-peptide corresponding to residues surrounding serine 1981 of human ATM

External Database

Links

UniProt:

[Q13315](#) [Related reagents](#)

Entrez Gene:

[472](#) ATM [Related reagents](#)

Specificity

Rabbit anti ATM (pSer1981) antibody recognizes serine-protein kinase ATM, also known as ataxia telangiectasia mutated, when phosphorylated at serine 1981. ATM is a serine/threonine protein kinase and a member of the PI3K/P14K-kinase family. ATM is a cell cycle checkpoint kinase that exists as an inactive dimer. In response to DNA damage, autophosphorylation of ATM

at serine 1981 occurs, resulting in the dissociation of the dimer and initiating ATM kinase activity ([Bakkenist and Kastan 2003](#)).

Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
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Further Reading	1. Bakkenist, C.J. & Kastan, M.B. (2003) DNA damage activates ATM through intermolecular autophosphorylation and dimer dissociation Nature. 421 (6922): 499-506 .
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Storage	Store at -20°C 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	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.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](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

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

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