

## Datasheet: VMA00927

<b>Description:</b>	MOUSE ANTI ATIC
<b>Specificity:</b>	ATIC
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB05/1D1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 195-592 of human ATIC
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P31939</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">471</a>   ATIC   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PURH
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti ATIC antibody</b> recognizes bifunctional purine biosynthesis protein PURH.</p> <p>ATIC is a dimeric, bifunctional enzyme that binds nucleotide substrates and catalyzes the last two steps of de novo purine biosynthesis (<a href="#">Witkowska et al. 2018</a>). ATIC acts as an oncogene in hepatocellular carcinoma, and targets the mTOR signalling pathway to promote cell survival, proliferation and migration (<a href="#">Li et al. 2017</a>). Inactivation of ATIC has been found to activate cell cycle checkpoints and shift cancer cells towards radiosensitivity, therefore, inhibition of ATIC has been suggested as a method for sensitizing cancer cells to radiation (<a href="#">Liu et al. 2018</a>). ATIC also plays a role in insulin signalling, with a role in the internalization of insulin receptor (<a href="#">Boutchueng-Djidjou et al. 2015</a>).</p>
<b>Western Blotting</b>	Mouse anti ATIC detects a band of approximately 68 kDa in Jurkat cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00927">https://www.bio-rad-antibodies.com/SDS/VMA00927</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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