

Datasheet: VMA00927

BATCH NUMBER 100005649

Description:	MOUSE ANTI ATIC
Specificity:	ATIC
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB05/1D1
Isotype:	IgG1
Quantity:	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.

	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	<p>Reacts with: Mouse, Rat</p> <p>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.</p>
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 195-592 of human ATIC

External Database Links

UniProt:

[P31939](#) [Related reagents](#)

Entrez Gene:

[471](#) ATIC [Related reagents](#)

Synonyms PURH

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti ATIC antibody** recognizes bifunctional purine biosynthesis protein PURH.

ATIC is a dimeric, bifunctional enzyme that binds nucleotide substrates and catalyzes the last two steps of de novo purine biosynthesis ([Witkowska et al. 2018](#)). ATIC acts as an oncogene in hepatocellular carcinoma, and targets the mTOR signalling pathway to promote cell survival, proliferation and migration ([Li et al. 2017](#)). 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 ([Liu et al. 2018](#)). ATIC also plays a role in insulin signalling, with a role in the internalization of insulin receptor ([Boutchueng-Djidjou et al. 2015](#)).

Western Blotting Mouse anti ATIC detects a band of approximately 68 kDa in Jurkat cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00927>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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