

Datasheet: MCA2621GA

Description:	MOUSE ANTI ATIC
Specificity:	ATIC
Other names:	AICAR TRANSFORMYLASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F38 P7 H9
Isotype:	IgG1
Quantity:	0.1 mg

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	▪			1/50 - 1/500
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

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

Synthetic Peptide

Species Cross Reactivity

Reacts with: Rat, Mouse, Drosophila, Xenopus, Human

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

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Ovalbumin-conuugated synthetic peptide AHTNLRLFHH
External Database Links	<p>UniProt: P31939 Related reagents</p> <p>Entrez Gene: 471 ATIC Related reagents</p>
Synonyms	PURH
RRID	AB_1100466
Specificity	<p>Mouse anti ATIC antibody, clone F38 P7 H9 specifically recognizes ATIC,a ribonucleotide transformylase (AICAR transformylase) and member of the purH family, which helps catalyze the final steps of the purine biosynthesis pathway.</p> <p>ATIC has been identified as an activator of AMP-activated protein kinase (AMPK), a known regulator of energy homeostasis, inhibitor of cell proliferation and inducer of apoptosis in cancerous cells of various origins, making ATIC a potential therapeutic agent for cancer. The anti-inflammatory and neuroprotective functions of ATIC, also have implications for its use in the treatment of Alzheimer's disease.</p>
Immunohistology	This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Histology Positive Control Tissue	Colon carcinoma
Western Blotting	MCA2621GA detects a band of approximately 65.0kDa in HT29 and CACO-2 cell lysates.
Further Reading	1. Rattan, R. <i>et al.</i> (2005) 5-Aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside inhibits cancer cell proliferation <i>in vitro</i> and <i>in vivo</i> via AMP-activated protein kinase. J Biol Chem. 280 (47): 39582-93.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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</p>

microcentrifugation before use.

Guarantee	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP

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