

**DATASHEET**

**ATIC Mouse Monoclonal Antibody(C3336)**

CAT. NO. AMA02948

**KEY FEATURES**

Target	ATIC	Source / Host	Mouse
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.	Storage	at-20°C

**BACKGROUND**

Bifunctional enzyme that catalyzes the last two steps of purine biosynthesis . Acts as a transformylase that incorporates a formyl group to the AMP analog AICAR (5-amino-1-(5-phospho-beta-D-ribose)imidazole-4-carboxamide) to produce the intermediate formyl-AICAR (FAICAR) . Can use both 10-formylidihydrofolate and 10-formyltetrahydrofolate as the formyl donor in this reaction . Also catalyzes the cyclization of FAICAR to inosine monophosphate (IMP) . Is able to convert thio-AICAR to 6-mercaptopurine ribonucleotide, an inhibitor of purine biosynthesis used in the treatment of human leukemias . Promotes insulin receptor/INSR autophosphorylation and is involved in INSR internalization .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

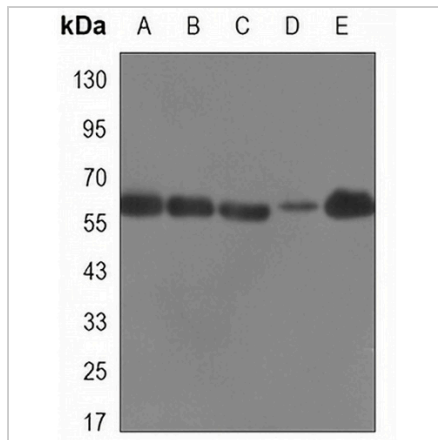
Description	Mouse monoclonal antibody to ATIC
Specificity	Recognizes endogenous levels of ATIC protein.
Antibody Type	Primary antibody
Immunogen	Purified recombinant human ATIC protein fragments expressed in E.coli.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 65 kD; Observed: 65 kD
Form/Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Alternative Names	PURH; Bifunctional purine biosynthesis protein PURH
Gene Symbol	ATIC
Entrez Gene	471(Human); 108147(Mouse); 81643(Rat)
SwissProt	P31939(Human); Q9CWJ9(Mouse); O35567(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of ATIC expression in Jurkat (A), HeLa (B), U2OS (C), mouse brain (D), rat liver (E) whole cell lysates. (Predicted band size: 65 kD; Observed band size: 65 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.