

Product Name: KD-Validated ATIC Mouse Monoclonal Antibody**Catalog #: KVA00630**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 64.6kDa

Antigen Information

Gene Name	ATIC
Alternative Names	ATIC; 5-Aminoimidazole-4-Carboxamide Ribonucleotide Formyltransferase/IMP Cyclohydrolase; PURH; IMPCHASE; AICARFT; Phosphoribosylaminoimidazolecarboxamide Formyltransferase/IMP Cyclohydrolase; AICAR Transformylase/Inosine Monophosphate Cyclohydrolase; Bifunctional Purine Biosynthesis Protein ATIC; 5-Aminoimidazole-4-Carboxamide-1-Beta-D-Ribonucleotide Transformylase/Inosinase; AICAR Formyltransferase/IMP Cyclohydrolase Bifunctional Enzyme; Epididymis Secretory Sperm Binding Protein Li 70p; Bifunctional Purine Biosynthesis Protein PURH; AICARFT/IMPCHASE; HEL-S-70p; AICAR
Gene ID	471.0
SwissProt ID	P31939

Immunogen

Recombinant protein of human ATIC

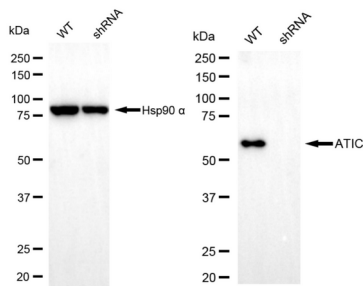
Background

This gene encodes a bifunctional protein that catalyzes the last two steps of the de novo purine biosynthetic pathway. The N-terminal domain has phosphoribosylaminoimidazolecarboxamide formyltransferase activity, and the C-terminal domain has IMP cyclohydrolase activity. A mutation in this gene results in AICA-ribosiduria. [provided by RefSeq, Sep 2009]

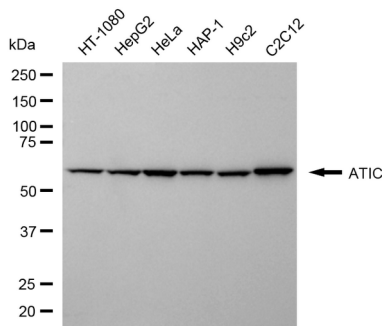
Research Area

Epigenetics and Nuclear Signaling,Signal Transduction,Metabolism

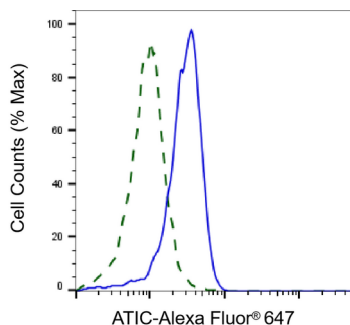
Image Data

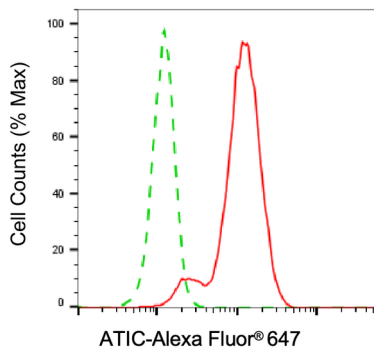


Western blotting analysis using ATIC antibody (KVA00630). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ATIC antibody (KVA00630, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of ATIC knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ATIC antibody (KVA00630, 1:2,000) and analyzed using BD flow cytometer.





Flow cytometric analysis of ATIC expression in C2C12 cells using ATIC antibody (KVA00630, 1:2,000). Green, isotype control; red, ATIC.