

**(** Tel: 400-999-8863 **(** Emall:Upingbio.163.com





# ATIC mouse mAb

Catalog No         YP-Ab-02363           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB           Gene Name         atic           Protein Name         Immunogen         Purified recombinant human ATIC protein fragments expressed in E.coli.           Specificity         This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse           Purification         The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.           Dilution         wb 1:1000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide formyltransferase; 5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase; 5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase; 6 aminoimidazole 4 carboxamide ribonucleotide formyltransferase; 6 aminoimidazole 4 carboxamide ribonucleotide formyltransferase; MP cyclohydrolase; 5-aminoimidazole 4-carboxamide ribonucleotide formyltransferase; MP cyclohydrolase; MP cyclohydro		
Reactivity Human;Mouse;Rat  Applications WB  Gene Name atic  Protein Name  Immunogen Purified recombinant human ATIC protein fragments expressed in E.coli.  Specificity This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse  Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  Dilution wb 1:1000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole 4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase;bimctional enzyme;AICAR transformylase;AICAR;T	Catalog No	YP-Ab-02363
Applications WB Gene Name atic  Protein Name  Immunogen Purified recombinant human ATIC protein fragments expressed in E.coli.  Specificity This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse  Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  Dilution wb 1:1000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide fromyltransferrase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferrase;1MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;4ICAR;AICAR formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide fromyltransferase;4ICAR;AICAR formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide piopoucleotide fromyltransferase;4ICAR;AICAR formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide piopoucleotide formyltransferase;4ICAR;AICAR formyltransferase/IMP cyclohydrolase;5-INP cyclohydrolase;5-INP cyclohydrolase;IMP synthetase;IMP cyclohydrolase;IMP cyclohydrolase;IMP synthetase;IMP cyclohydrolase;IMP cyclohydrolase;IMP synthetase;IMP cyclohydrolase;IMP cyclohydrolase;IMP synthetase;IMP cyclohydrolase;IMP	Isotype	IgG
Gene Name Protein Name Immunogen Purified recombinant human ATIC protein fragments expressed in E.coli. Specificity This antibody detects endogenous levels of ATIC and does not cross-react with related proteins. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Monoclonal, Mouse Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen. Dilution Wb 1:1000 Concentration 1 mg/ml Purity 290% Storage Stability -20°C/1 year Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;6-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;6-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;0-IMP cyclohydrolase;1-IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;honiciase;0K/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazole	Reactivity	Human;Mouse;Rat
Immunogen	Applications	WB
Immunogen         Purified recombinant human ATIC protein fragments expressed in E.coli.           Specificity         This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Monoclonal, Mouse           Purification         The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.           Dilution         wb 1:1000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;6 minoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;AIMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AIMP cyclohydrolase;AICAR formyltransferase/IMP cyclohydrolase;MP cyclohydrolase;IMP synthase;IMP synthase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;IMP cyclohydrolase;PUR9_HUMAN; PURH.           Observed Band         64kD           Cell Pathway         mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,           Tissue Specificity         Present in the heart, brain, placenta, lung, liver, skeletal musc	Gene Name	atic
Specificity This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse  Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  Dilution Wb 1:1000 Concentration 1 mg/ml  Purity ≥90% Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;6 minoimidazole 4 carboxamide ribonucleotide formyltransferase;8 minoimidazole 4 carboxamide ribonucleotide formyltransferase;9 minoimidazole 4 carboxamide ribonucleotide formyltransferase;1 minoimidazole 5 minoimidazole 6 minoimidazole 6 minoimidazole 6 minoimidazole 7 minoimid	Protein Name	
related proteins.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse  Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  Dilution Wb 1:1000  Concentration 1 mg/ml  Purity \$90%  Storage Stability -20°C/1 year  Synonyms  5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AlCAR;AlCAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AlCAR transformylase;AlCARFT;AlCARFT;IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthase;IMP cyclohydrolase;DKP synthase;IMP cyclohydrolase;PNosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9 HUMAN; PURH.  Observed Band 64kD  Cell Pathway mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosoome, Tissue Specificity Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Immunogen	Purified recombinant human ATIC protein fragments expressed in E.coli.
Purification	Specificity	This antibody detects endogenous levels of ATIC and does not cross-react with related proteins.
Purification The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  Dilution Wb 1:1000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole 4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AlCAR;AlCAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AlCAR transformylase;AlCARFT;AlCARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band 64kD  Cell Pathway mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome, Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
using epitope-specific immunogen.  Dilution wb 1:1000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-Aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AICAR transformylase;AICARFT;AICARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJy3545;IMP cyclohydrolase;IMP synthase;IMP synthase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band 64kD  Cell Pathway mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,  Tissue Specificity Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Source	Monoclonal, Mouse
Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AICAR transformylase;AICARFT;AICARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.           Observed Band         64kD           Cell Pathway         mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,           Tissue Specificity         Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Purification	
Purity ≥90%  Storage Stability -20°C/1 year  Synonyms 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;6 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AlCAR;AlCAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AlCAR transformylase;AlCARFT;AlCARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band 64kD  Cell Pathway mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,  Tissue Specificity Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Dilution	wb 1:1000
Synonyms  5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AlCAR;AlCAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AlCAR transformylase;AlCARFT;AlCARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthase;IMP synthase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band  64kD  Cell Pathway  mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,  Tissue Specificity  Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Concentration	1 mg/ml
Synonyms  5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AICAR transformylase;AICARFT;AICARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band  64kD  Cell Pathway  mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,  Tissue Specificity  Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Purity	≥90%
transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;1MP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AICAR transformylase;AICARFT;AICARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.  Observed Band  64kD  Cell Pathway  mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular exosome,  Tissue Specificity  Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,	Storage Stability	-20°C/1 year
exosome,  Tissue Specificity  Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,		transformylase/inosinicase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase;5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase;5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase;AICAR;AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme;AICAR transformylase;AICARFT;AICARFT/IMPCHASE;ATIC; Bifunctional purine biosynthesis protein PURH;FLJ93545;IMP cyclohydrolase;IMP synthase;IMP synthetase;IMPCHASE;Inosinicase;OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase;PUR9_HUMAN; PURH.
exosome,  Tissue Specificity  Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,		
	Cell Pathway	
	Tissue Specificity	



### UpingBio technology Co.,Ltd

📞 Tel: 400-999-8863 💌 Email:Upingbio.163.com



#### **Function**

catalytic activity:10-formyltetrahydrofolate +

5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide = tetrahydrofolate + 5-formamido-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide.,catalytic activity:IMP + H(2)O =

5-formamido-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide.,disease:Defects in ATIC are the cause of AICA-ribosuria [MIM:608688]; also known as AICA-ribosiduria. AICA-ribosuria is a neurologically devastating inborn error of purine biosynthesis. AICA-ribosuria patients excrete massive amounts of AICA-riboside in the urine and accumulate AICA-ribotide and its derivatives in erythrocytes and fibroblasts. AICA-ribosuria causes profound mental retardation, epilepsy, dysmorphic features and congenital blindness.,domain:The IMP cyclohydrolase activity resides in the N-terminal region.,pathway:Purine

metabolism; IMP biosynthesis via de novo pathway;

5-formamido-1-(5-phospho-D-ribosy

#### 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],

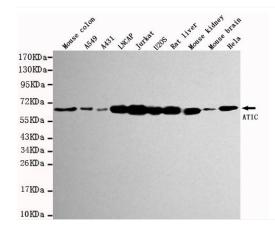
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western blot detection of ATIC in various tissues and cell lysates using ATIC mouse mAb (1:1000 diluted). Predicted band size: 64KDa. Observed band size:64KDa.