

ATIC mouse mAb

Catalog No: YM1324

Reactivity: Human; Mouse; Rat

Applications: WB

Target: ATIC

Fields: >>Purine metabolism;>>One carbon pool by folate;>>Metabolic

pathways;>>Antifolate resistance

Gene Name: atic

Human Gene Id: 471

Human Swiss Prot

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No:

Mouse Swiss Prot

No:

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.

P31939

Q9CWJ9

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution: wb 1:1000

Purification: The antibody was affinity-purified from mouse ascites by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 64kD

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Cell Pathway: Purine metabolism;One carbon pool by folate;

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],

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

Subcellular Location:

mitochondrion,cytosol,cell-cell adherens junction,membrane,extracellular

exosome,

Expression: Present in the heart, brain, placenta, lung, liver, skeletal muscle, kidney,

pancreas.

Sort: 2408

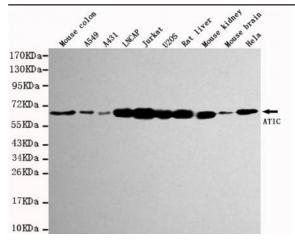
No4:

Host: Mouse

Modifications: Unmodified

Products Images

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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.