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Product datasheet for AM05383PU-N

ATIC Mouse Monoclonal Antibody [Clone ID: F38 P7 H9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F38 P7 H9
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1-2 µg/ml. Immunohistochemistry on Paraffin Sections (15 µg/ml). **Antigen retrieval:** Steam slides in 0.01 M sodium citrate buffer, pH 6.0, at 99-100°C for 20 min. Remove from heat and let stand at room temperature in buffer for 20 min. Rinse in 1x TBS with Tween (TBST) for 1 min. at room temperature.
Reactivity:	Drosophila, Frog, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the human ATIC protein and mouse myeloma Ag8563 cells. Sequence common in Frog, Fruit fly, Rat and Mouse.
Specificity:	This antibody detects Phosphoribosylaminoimidazolecarboxamide Formyltransferase (ATIC).
Formulation:	Phosphate buffered saline with 0.08% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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Gene Name: 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase

Database Link: Entrez Gene 471 Human
P31939

Background: The bifunctional purine biosynthesis protein PURH contains phosphoribosylaminoimidazole carboxamide formyltransferase, also designated AICAR transformylase, IMP cyclohydrolase or Inosinicase. AICAR plays an important role in purine biosynthesis, specifically in the production of nucleotides and IMP. Defects in ATIC, the gene encoding for this protein, can cause AICArebosuria, also designated AICA-ribosiduria, an inborn error in purine biosynthesis that is neurologically cataclysmic. Individuals with AICA-rebosuria accumulate AICA-ribotide, also designated ZMP, and its derivatives in erythrocytes and fibroblasts and also excrete very large amounts of AICA-riboside in the urine. Mental retardation, epilepsy, dysmorphic features and congenital blindness are all symptoms of this disease.

Synonyms: IMP cyclohydrolase, Inosinicase, IMP synthetase

Product images:

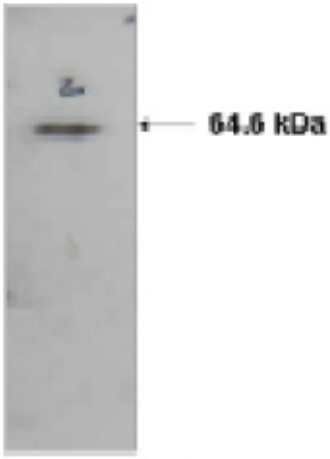

Figure 2. Western blot using ATIC antibody on HT29 cell lysate.

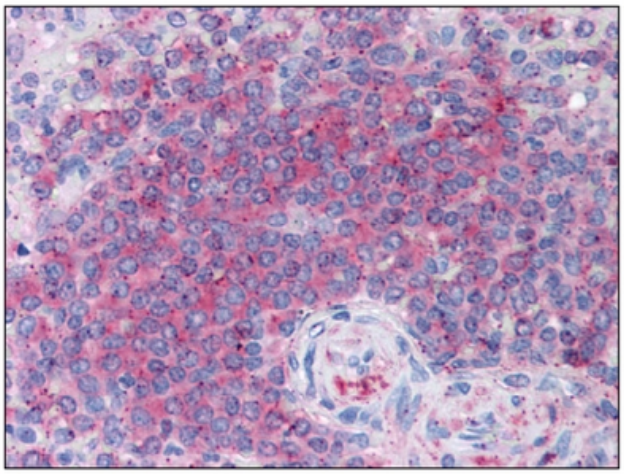

Figure 1. Spleen: Formalin-Fixed Paraffin-Embedded (FFPE)