

Datasheet for ABIN307123 **anti-ATIC antibody**

1 Image



[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	ATIC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATIC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

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.
Clone:	F38 P7 H9
Isotype:	IgG1
Cross-Reactivity:	Drosophila melanogaster, Frog, Human, Mouse, Rat
Characteristics:	AICAR, AICARFT, AICARFT/IMPCHASE, PURH, 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase, 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

Product Details

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.

Purification: Protein A/G Chromatography

Target Details

Target: ATIC

Alternative Name: ATIC ([ATIC Products](#))

UniProt: [P31939](#)

Application Details

Application Notes: Antibody can be used for Western blotting (1-2 µg/mL) and immunohistochemistry on formalin-fixed, paraffin-embedded tissues (1-5 µg/mL). Optimal concentration should be evaluated by serial dilutions.

Restrictions: For Research Use only

Handling

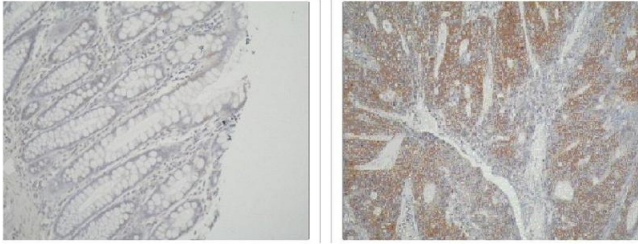
Buffer: Provided as solution in phosphate buffered saline with 0.08 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles



Immunohistochemistry

Image 1. Left and Center: Immunohistochemical staining of normal colon tissue and colon carcinoma tissue using ATIC antibody . Right: Western blot using ATIC antibody on HT29 cell lysate. Human, Frog, Fruit Fly, Rat, Mouse