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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ATIC. Mouse Monoclonal Antibody

AICAR; AICARFT; AICARFT/IMPCHASE; PURH; 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase

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.

Ordering Information

Catalog Number
X2062M

Size
200 µg

Form
Unconjugated

Host/Clone
Mouse Clone F38 P7 H9

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

Concentration
See vial for concentration

Isotype
IgG1

Applications
Western Blot, Immunohistochemistry

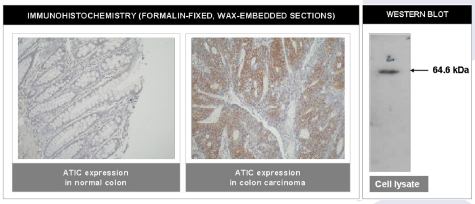
Species Reactivity
Human, Frog, Fruit Fly, Rat, Mouse

Accession Number

Human	P31939

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.



Left and Center: Immunohistochemical staining of normal colon tissue and colon carcinoma tissue using ATIC antibody (Cat. No. X2062M). Right: Western blot using ATIC antibody on HT29 cell lysate.

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Positive Control/Tissue Expression

Colorectal cancer tissue.

Comments

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.

Purification

Protein A/G Chromatography

Ship Conditions

Ship at ambient temperature, freeze upon arrival

Storage Customer

Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

Stability

Products are stable for one year from purchase when stored properly

References

1. Bulock, K.G., et al. (2002). The kinetic mechanism of the human bifunctional enzyme ATIC (5-amino-4-imidazolecarboxamide ribonucleotide transformylase/inosine 5'-monophosphate cyclohydrolase). A surprising lack of substrate channeling. J. Biol. Chem. 277(25):22168-22174.

2. Marie, S., et al. (2004). AICA-ribosiduria: a novel, neurologically devastating inborn error of purine biosynthesis caused by mutation of ATIC. Am. J. Hum. Genet. 74(6):1276-1281.

Product Specific References

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