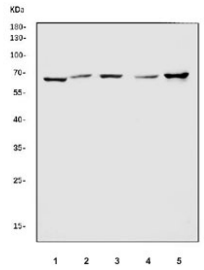
ATIC Antibody / AICAR transformylase / PURH (RQ7964)

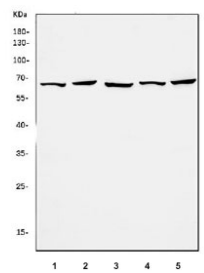
Catalog No.	Formulation	Size
RQ7964	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

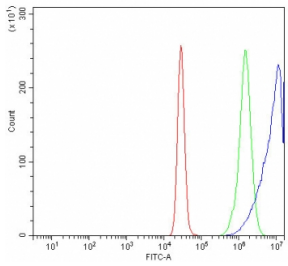
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P31939
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This ATIC antibody is available for research use only.



Western blot testing of 1) rat stomach, 2) rat kidney, 3) rat testis, 4) mouse kidney and 5) mouse testis tissue lysate with ATIC antibody. Predicted molecular weight ~65 kDa.



Western blot testing of human 1) Caco-2, 2) HepG2, 3) K562, 4) HEK293 and 5) HeLa cell lysate with ATIC antibody. Predicted molecular weight ~65 kDa.



Flow cytometry testing of human K562 cells with ATIC antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ATIC antibody.

Description

Bifunctional purine biosynthesis protein PURH is a protein that in humans is encoded by the ATIC gene. 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.

Application Notes

Optimal dilution of the ATIC antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids T37-H592) was used as the immunogen for the ATIC antibody.

Storage

After reconstitution, the ATIC antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.