

For Research Use Only

# ATIC Polyclonal antibody

Catalog Number: 10726-1-AP

Featured Product

7 Publications



## Basic Information

Catalog Number:

10726-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1052

GenBank Accession Number:

BC008879

GeneID (NCBI):

471

UNIPROT ID:

P31939

Full Name:

5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase

Calculated MW:

65 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IF/ICC 1:300-1:1200

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : HCT 116 cells, HeLa cells, HepG2 cells, Jurkat cells

IF/ICC : HeLa cells,

## Background Information

5-Aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase (ATIC, also known as AICAR) is an enzyme that can catalyse the last two reactions in the de novo purine biosynthetic pathway, has been previously reported to be upregulated and to participate in myeloma and hepatocellular carcinoma progression (PMID: 35251351).

## Notable Publications

Author	Pubmed ID	Journal	Application
Li Cui	34533844	J Pineal Res	WB
Hao Zhang	34803509	Int J Biol Sci	WB
Lin Wang	34083509	Transl Psychiatry	WB,IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

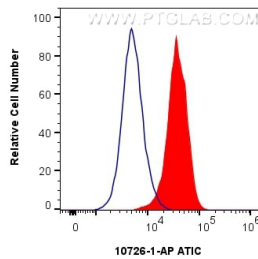
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

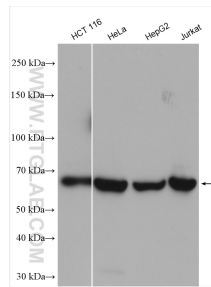
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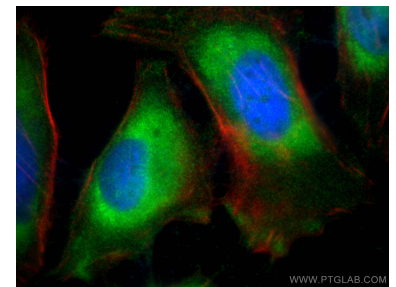
## Selected Validation Data



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug ATIC Polyclonal antibody (10726-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 10726-1-AP (ATIC antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ATIC antibody (10726-1-AP) at dilution of 1:600 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).