

Rabbit ATIC Polyclonal Antibody | anti-ATIC antibody

ATIC Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327100	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ATIC; Polyclonal Antibody; ATIC Antibody; AICAR formyltransferase/IMP cyclohydrolase; 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinase; 5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase; 5 aminoimidazole 4 carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase; 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase; AICAR; AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme; AICAR transformylase; AICARFT; AICARFT/IMPCHASE; Bifunctional purine biosynthesis protein PURH; epididymis secretory sperm binding protein Li 70p; FLJ93545; HEL-S-70p; IMP cyclohydrolase; IMP synthase; IMP synthetase; IMPCHASE; Inosinase; OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase; PUR9_HUMAN; PURH; anti-ATIC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATIC antibody detects endogenous levels of total ATIC
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	592
Applicable Applications for anti-ATIC antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATIC
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA327100 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hepg2 whole cell lysates, using ATIC Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of extracts from HepG2, using ATIC Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ATIC antibody

Description: 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.

Function: Bifunctional enzyme that catalyzes 2 steps in purine biosynthesis.

Subunit Structure: Homodimer (PubMed:14756553, PubMed:14966129). Associates with internalized INSR complexes on Golgi/endosomal membranes. Interacts with INSR; ATIC together with PRKAA2/AMPK2 and HACD3/PTPLAD1 is proposed to be part of a signaling network regulating INSR autophosphorylation and endocytosis (PubMed:25687571).

Similarity: The IMP cyclohydrolase activity resides in the N-terminal region. Belongs to the PurH family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20127454
NCBI GeneID	471
NCBI Accession #	NP_004035.2
NCBI GenBank Nucleotide #	NM_004044.6
UniProt Accession #	P31939; Q13856; Q53S28; A8K202; E9PBU3
Molecular Weight	Observed: 64 kDa Predicted: 65 kDa
NCBI Official Full Name	bifunctional purine biosynthesis protein PURH
NCBI Official Synonym Full Names	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
NCBI Official Symbol	ATIC
NCBI Official Synonym Symbols	PURH; AICAR; AICARFT; IMPCHASE; HEL-S-70p
NCBI Protein Information	bifunctional purine biosynthesis protein PURH
UniProt Protein Name	Bifunctional purine biosynthesis protein PURH
UniProt Gene Name	ATIC
UniProt Synonym Gene Names	PURH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/atic-antibody-immunohistochemistry-western-blot-elisa/327100>