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Rabbit Anti-ATIC/PURH antibody

SL12544R

Product Name:	ATIC/PURH
Chinese Name:	AICAR甲酰基转移酶抗体
Alias:	AICAR transformylase; 5 aminoimidazole 4 carboxamide 1 beta D ribonucleotide transformylase/inosinicase; 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; AICARFT; AICARFT/IMPCHASE; ATIC; Bifunctional purine biosynthesis protein PURH; FLJ93545; IMP cyclohydrolase; IMP synthase; IMP synthetase; IMPCHASE; Inosinicase; OK/SW-cl.86; Phosphoribosylaminoimidazolecarboxamide formyltransferase; Phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase; PUR9_HUMAN; PURH.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	65kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATIC/AICAR transformylase:351-450/592
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The bifunctional purine biosynthesis protein ATIC (also designated PURH) contains AICAR transformylase and IMP cyclohydrolase activities. AICAR (5-aminoimidazole-4-carboxamide ribonucleotide) transformylase catalyzes the second to last step in purine biosynthesis, playing an important role in the production of nucleotides and IMP. Defects in the ATIC transformylase gene can cause AICA-rebsuria, also designated AICA-ribosiduria, an inborn error in purine biosynthesis that is neurologically cataclysmic. Individuals with AICA-rebosuria accumulate AICA-riboside, also designated ZMP, and its derivatives in erythrocytes and fibroblasts. Patients 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. **Function:** Bifunctional enzyme that catalyzes 2 steps in purine biosynthesis. **Subunit:** Homodimer. **DISEASE:** Defects in ATIC are the cause of AICA-ribosuria [MIM:608688]; also known as AICA-ribosiduria. AICA-ribosuria is a neurologically devastating inborn error of purine biosynthesis. AICA-ribosuria patients excrete massive amounts of AICA-riboside in the urine and accumulate AICA-ribotide and its derivatives in erythrocytes and fibroblasts. AICA-ribosuria causes profound mental retardation, epilepsy, dysmorphic features and congenital blindness. **Similarity:** Belongs to the purH family. **SWISS:** P31939 **Gene ID:** 471 **Database links:** Entrez Gene: 471Human Entrez Gene: 108147Mouse Entrez Gene: 81643Rat Entrez Gene: 396091Chicken

	Omim: 601731Human SwissProt: P31335Chicken SwissProt: P31939Human SwissProt: Q9CWJ9Mouse SwissProt: O35567Rat Unigene: 90280Human Unigene: 38010Mouse Unigene: 15114Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.