

Product datasheet for **CF504554**

ATIC Mouse Monoclonal Antibody [Clone ID: OTI2C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C10
Applications:	WB
Recommended Dilution:	WB 1:500~2000
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ATIC(NP_004035) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	64.4 kDa
Gene Name:	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
Database Link:	NP_004035 Entrez Gene 81643 Rat Entrez Gene 108147 Mouse Entrez Gene 488513 Dog Entrez Gene 694819 Monkey Entrez Gene 471 Human P31939



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Background:

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. [provided by RefSeq]

Synonyms:

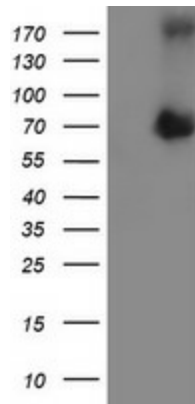
AICAR; AICARFT; HEL-S-70p; IMPCHASE; PURH

Protein Families:

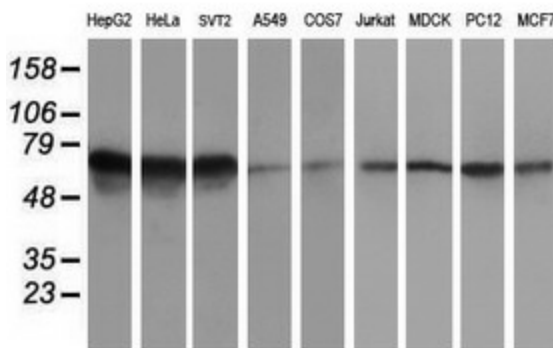
Stem cell - Pluripotency

Protein Pathways:

Metabolic pathways, One carbon pool by folate, Purine metabolism

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ATIC ([RC203490], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATIC. Positive lysates [LY418255] (100ug) and [LC418255] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ATIC monoclonal antibody.