

## Product datasheet for **TA504553BM**

### ATIC Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1D2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D2
Applications:	FC, WB
Recommended Dilution:	WB 1:500~2000, FLOW 1:100
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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
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:	<a href="#">NP_004035</a> <a href="#">Entrez Gene 81643 Rat</a> <a href="#">Entrez Gene 108147 Mouse</a> <a href="#">Entrez Gene 488513 Dog</a> <a href="#">Entrez Gene 694819 Monkey</a> <a href="#">Entrez Gene 471 Human</a> <a href="#">P31939</a>
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]



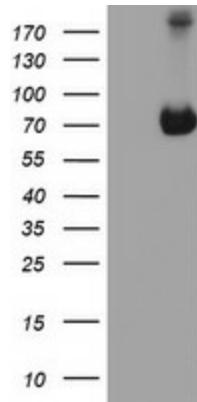
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**Synonyms:** AICAR; AICARFT; HEL-S-70p; IMPCHASE; PURH

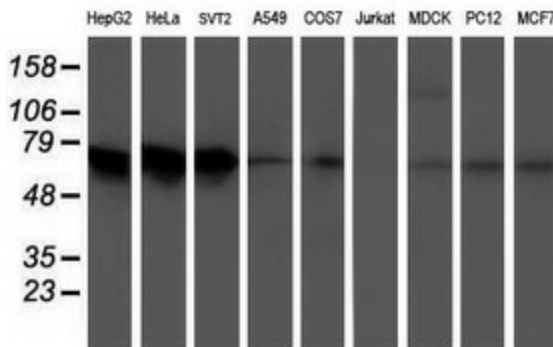
**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Metabolic pathways, One carbon pool by folate, Purine metabolism

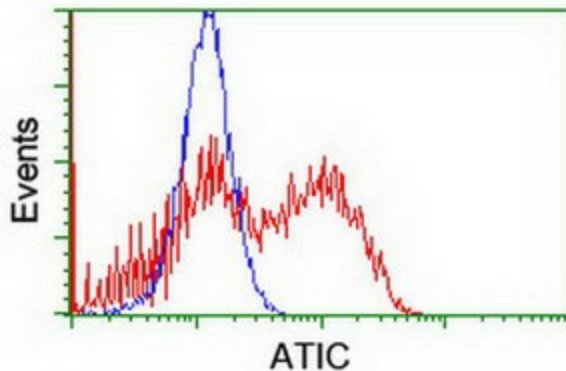
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ATIC (Cat# [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(Cat# [TA504553]). 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.



HEK293T cells transfected with either [RC203490] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ATIC antibody ([TA504553]), and then analyzed by flow cytometry.