

## ARG54814 anti-APRT antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes APRT
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	APRT
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 12-40 (N-terminus) of Human APRT.
Conjugation	Un-conjugated
Alternate Names	Adenine phosphoribosyltransferase; AMP; EC 2.4.2.7; APRTD; APRT

### Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A2058	

### Properties

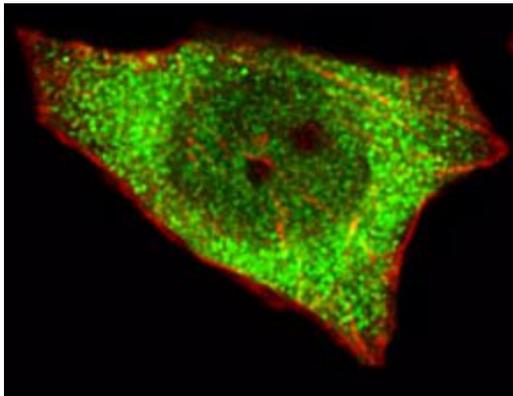
Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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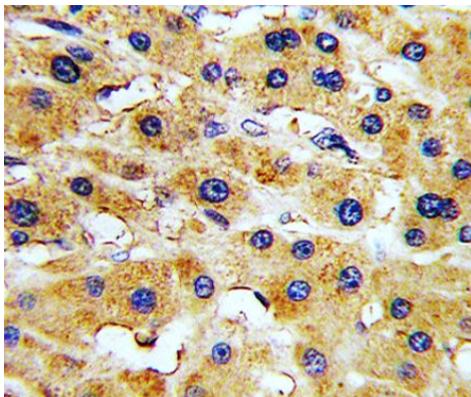
Database links	<a href="#">GeneID: 353 Human</a> <a href="#">Swiss-port # P07741 Human</a>
Gene Symbol	APRT
Gene Full Name	adenine phosphoribosyltransferase
Background	Adenine phosphoribosyltransferase belongs to the purine/pyrimidine phosphoribosyltransferase family. A conserved feature of this gene is the distribution of CpG dinucleotides. This enzyme catalyzes the formation of AMP and inorganic pyrophosphate from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP). It also produces adenine as a by-product of the polyamine biosynthesis pathway. A homozygous deficiency in this enzyme causes 2,8-dihydroxyadenine urolithiasis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Catalyzes a salvage reaction resulting in the formation of AMP, that is energetically less costly than de novo synthesis. [UniProt]
Research Area	Metabolism antibody; Signaling Transduction antibody
Calculated Mw	20 kDa
Cellular Localization	Cytoplasm.

## Images



ARG54814 anti-APRT antibody ICC/IF image

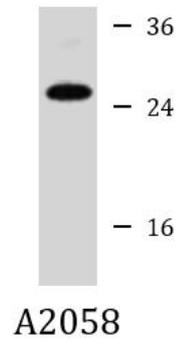
Immunofluorescence: A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG54814 anti-APRT antibody (green) at 1:25 dilution, 1 h at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C).



ARG54814 anti-APRT antibody IHC-P image

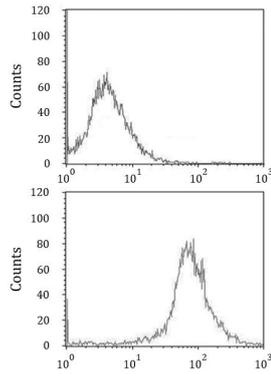
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG54814 anti-APRT antibody.

### ARG54814 anti-APRT antibody WB image



Western blot: 35  $\mu$ g of A2058 cell lysate stained with ARG54814 anti-APRT antibody.

### ARG54814 anti-APRT antibody FACS image



Flow Cytometry: HepG2 cells stained with ARG54814 anti-APRT antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.