

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	

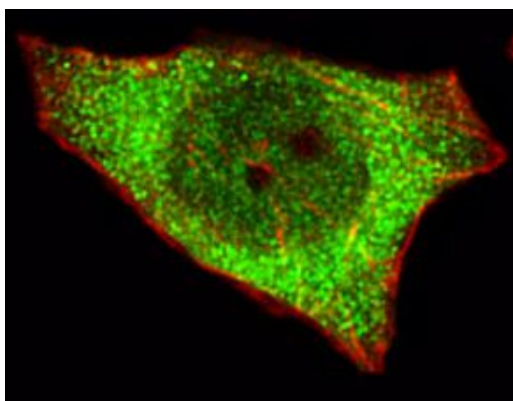
Properties

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

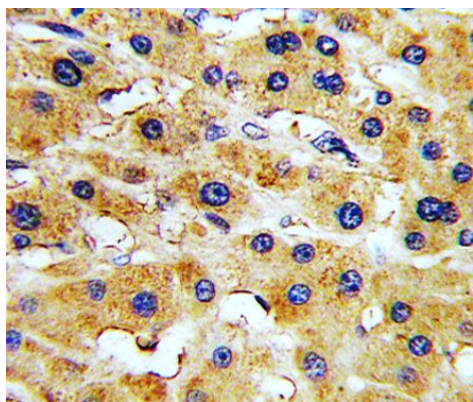
Database links	GeneID: 353 Human Swiss-port # P07741 Human
Gene Symbol	APRT
Gene Full Name	adenine phosphoribosyltransferase
Background	Adenine phosphoribosyltransferase belongs to the purine/pyrimidine phosphoribosyltransferase family. A conserved feature of this gene is the distribution of CpG dinucleotides. 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



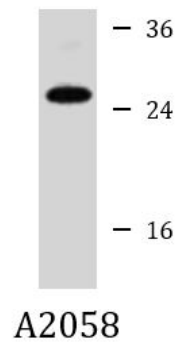
ARG54814 anti-APRT antibody ICC/IF image

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).



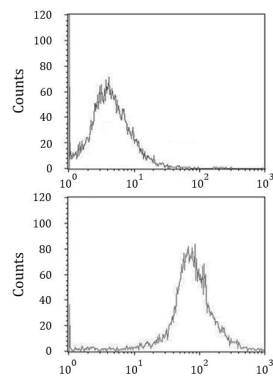
ARG54814 anti-APRT antibody IHC-P image

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



ARG54814 anti-APRT antibody WB image

Western blot: 35 µg 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.