

Anti-APRT Picoband Antibody

Catalog # ABO10255

Product Information

Application	WB
Primary Accession	P07741
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Adenine phosphoribosyltransferase(APRT) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	353
Other Names	Adenine phosphoribosyltransferase, APRT, 2.4.2.7, APRT
Calculated MW	19608
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Protein Name	Adenine phosphoribosyltransferase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human APRT (5-49aa ELQLVEQRIRSFDFPTPGVVFRDISPVLKDPASFRAAIGLLARH), different from the related mouse sequence by ten amino acids, and from the related rat sequence by nine amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.

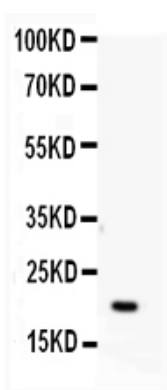
Protein Information

Name	APRT (HGNC:626)
Function	Catalyzes a salvage reaction resulting in the formation of AMP, that is energetically less costly than de novo synthesis.
Cellular Location	Cytoplasm.

Background

Adenine phosphoribosyltransferase (APRTase) is an enzyme encoded by the APRT gene, found in humans on chromosome 16. It 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.

Images



Western blot analysis of APRT expression in K562 whole cell lysates (lane 1). APRT at 20KD was detected using rabbit anti- APRT Antigen Affinity purified polyclonal antibody (Catalog # ABO10255) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .

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