

## Recombinant Human APRT cell lysate

**Cat. No.** APRT-102HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>    | 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. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| <b>Gene Name</b>       | APRT adenine phosphoribosyltransferase [ Homo sapiens ]           |
| <b>Official Symbol</b> | APRT                                                              |
| <b>Synonyms</b>        | APRT; adenine phosphoribosyltransferase; AMP diphosphorylase; AMP |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | pyrophosphorylase; transphosphoribosidase; AMP; MGC125856; MGC125857; MGC129961; DKFZp686D13177;                                                                                                                                                                                                                                       |
| <b>Gene ID</b>             | <a href="#">353</a>                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | <a href="#">NM_000485</a>                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | <a href="#">NP_000476</a>                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | <a href="#">P07741</a>                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 16q24                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Purine salvage, organism-specific biosystem; |
| <b>Function</b>            | AMP binding; adenine binding; adenine phosphoribosyltransferase activity; transferase activity, transferring glycosyl groups;                                                                                                                                                                                                          |