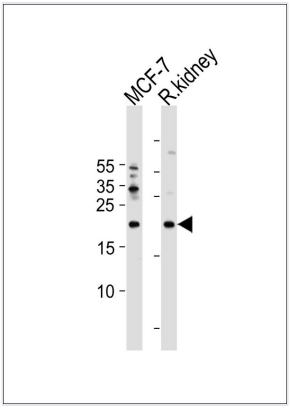
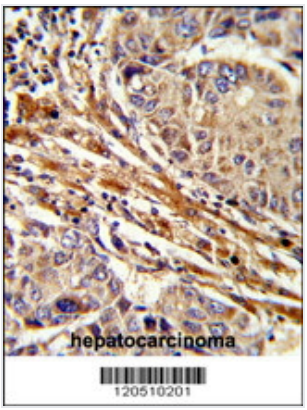
# APRT Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | APRT, Polyclonal Antibody |
| **Full Product Name** | APRT, CT (Adenine Phosphoribosyltransferase) (APC) |
| **Product Gene Name** | anti-APRT antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes human APRT. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 19.6 kDa (180aa), confirmed by MALDI-TOF. |
| **OMIM** | 102600 |
| **3D Structure** | ModBase 3D Structure for P07741 |
| **Immunogen** | Synthetic peptide selected from the C-terminal region of human APRT (KLH). |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-APRT antibody** | Antibodies; Enzymes |
| **Applications Tested/Suitable for anti-APRT antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-APRT antibody** | WB: 1:100-1:500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-APRT antibody** | MBS6463852 is an antibody targeting APRT. Also known as APRT, CT (Adenine Phosphoribosyltransferase) (APC). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-APRT antibody** | 1. Silva, C.H., et. al., J. Biomol. Struct. Dyn. 25(6), 589-597 (2008). 2. Di Pietro, V., et. al., Clin. Biochem. 40(1-2), 73-80 (2007). |
| **Other Notes** | Small volumes of anti-APRT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-APRT antibody**
APRT Antibody (C-term) western blot analysis in MCF-7 cell line and rat kidney tissue lysates (35ug/lane).This demonstrates the APRT antibody detected the APRT protein (arrow).




**Immunohistochemistry (IHC) of anti-APRT antibody**
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with APRT Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APRT. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4502171 |
| **NCBI GeneID** | 353 |
| **NCBI Accession #** | NP_000476 |
| **UniProt Primary Accession #** | P07741 |
| **UniProt Secondary Accession #** | Q3KP55; Q68DF9; G5E9J2 |
| **UniProt Related Accession #** | P07741 |
| **GenBank Nucleotide #** | NM_000485.2 |
| **NCBI Official Full Name** | adenine phosphoribosyltransferase isoform a |
| **NCBI Official Synonym Full Names** | adenine phosphoribosyltransferase |
| **NCBI Official Symbol** | APRT |
| **NCBI Official Synonym Symbols** | AMP; APRTD |
| **UniProt Protein Name** | Adenine phosphoribosyltransferase |
| **Protein Family** | Probable adenine phosphoribosyltransferase |
| **UniProt Gene Name** | APRT |
| **UniProt Synonym Gene Names** | APRT |
| **UniProt Entry Name** | APT_HUMAN |
| **NCBI Protein Information** | adenine phosphoribosyltransferase |
| **NCBI Summary for APRT** | 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] |

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| **UniProt Comments for APRT** | APRT: Catalyzes a salvage reaction resulting in the formation of AMP, that is energically less costly than de novo synthesis. Defects in APRT are the cause of adenine phosphoribosyltransferase deficiency (APRTD); also known as 2,8-dihydroxyadenine urolithiasis. An enzymatic deficiency that can lead to urolithiasis and renal failure. Patients have 2,8-dihydroxyadenine (DHA) urinary stones. Belongs to the purine/pyrimidine phosphoribosyltransferase family.<br><br>Protein type: EC 2.4.2.7; Transferase; Nucleotide Metabolism - purine<br><br>Chromosomal Location of Human Ortholog: 16q24<br><br>Cellular Component: nucleoplasm; cytoplasm; cytosol<br><br>Molecular Function: adenine binding; adenine phosphoribosyltransferase activity; AMP binding<br><br>Biological Process: lactation; grooming behavior; cellular response to insulin stimulus; nucleobase, nucleoside and nucleotide metabolic process; adenine salvage; purine salvage; purine base metabolic process<br><br>Disease: Adenine Phosphoribosyltransferase Deficiency |
| **Research Articles on APRT** | **1.** A long TA repeat in the promoter region of IL28B was associated with spontaneous HCV clearance. |
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