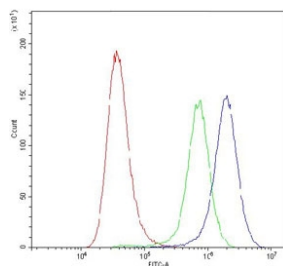


APRT Antibody / Adenine phosphoribosyltransferase (R32615)

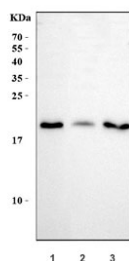
| Catalog No. | Formulation | Size |
|-------------|---|--------|
| R32615 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

Bulk quote request

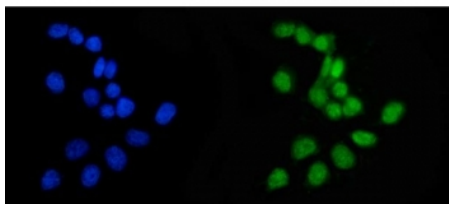
| | |
|---------------------------|--|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Antigen affinity purified |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit IgG |
| Purity | Antigen affinity |
| Buffer | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| UniProt | P07741 |
| Localization | Cytoplasmic, nuclear |
| Applications | Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Immunofluorescence : 5ug/ml |
| Limitations | This APRT antibody is available for research use only. |



Flow cytometry testing of human A549 cells with APRT antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=APRT antibody.



Western blot testing of human 1) 293T, 2) A549 and 3) K562 cell lysate with APRT antibody at 0.5ug/ml. Predicted molecular weight ~20 kDa.



Immunofluorescent staining of FFPE human MCF7 cells with APRT antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

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.

Application Notes

Optimal dilution of the APRT antibody should be determined by the researcher.

Immunogen

Amino acids 5-49 (ELQLVEQRIRSFPDFPTPGVVFRDISPVLKDPASFRAAIGLLARH-human) were used as the immunogen for the APRT antibody.

Storage

After reconstitution, the APRT antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.