

Adenine Phosphoribosyltransferase (APRT) Active Protein | APRT active protein

Active Adenine Phosphoribosyltransferase (APRT)

CATALOG # AAA148201	HOST E Coli	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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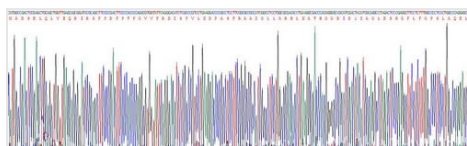
PRODUCT SYNONYMS

Adenine Phosphoribosyltransferase (APRT); Active Adenine Phosphoribosyltransferase (APRT); AMP; APRTase; APRT active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	180
Applicable Applications for APRT active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Met1~Glu180
Isoelectric Point	6.8

IMAGES



Application Data

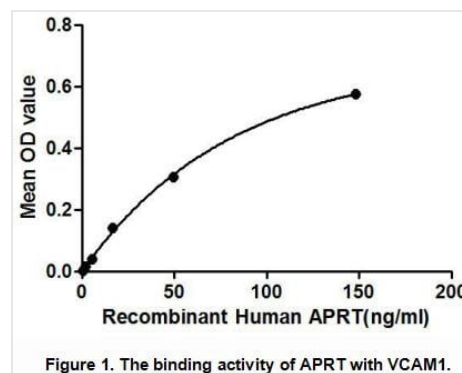
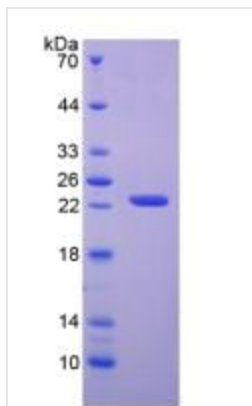


Figure 1. The binding activity of APRT with VCAM1.

Application Data



SDS-PAGE

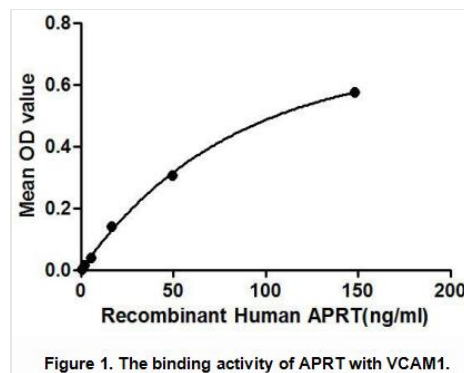


Figure 1. The binding activity of APRT with VCAM1.

Activity

Adenine Phosphoribosyltransferase (APRT) is an enzyme involved in the purine nucleotide salvage pathway. It functions as a catalyst in the reaction between adenine and phosphoribosyl pyrophosphate (PRPP) to form AMP. Besides, Vascular Cell Adhesion Molecule 1 (VCAM1) has been identified as an interactor of APRT, thus a binding ELISA assay was conducted to detect the interaction of recombinant human APRT and recombinant human VCAM1. Briefly, APRT were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to VCAM1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-APRT pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of APRT and VCAM1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for APRT active protein	Enzyme & Kinase; Metabolic pathway; Kidney biomarker
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502171
NCBI GeneID	353
NCBI Accession #	NP_000476.1
NCBI GenBank Nucleotide #	NM_000485.2
UniProt Accession #	P07741; Q3KP55; Q68DF9; G5E9J2
Molecular Weight	Predicted Molecular Weight: 23.3kDa Accurate Molecular Weight: 23kDa
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
NCBI Protein Information	adenine phosphoribosyltransferase
UniProt Protein Name	Adenine phosphoribosyltransferase
UniProt Gene Name	APRT
UniProt Synonym Gene Names	APRT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

