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APA519Rb01 100µg Active Apolipoprotein A1 (APOA1) Organism Species: *Oryctolagus cuniculus (Rabbit) Instruction manual*

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression. Host: *E. coli* Residues: Asp25~Gln265 Tags: N-terminal His-tag Purity: >95% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose . Original Concentration: 200µg/mL Applications: Activity Assays. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 4.9 Predicted Molecular Mass: 28.9kDa Accurate Molecular Mass: 28kDa as determined by SDS-PAGE reducing conditions.

[<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

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Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

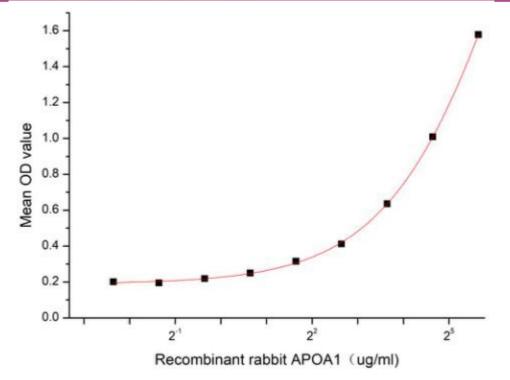
[<u>SEQUENCE</u>]

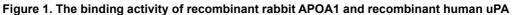
DEPRSSWDKIKDFATVYVDTVKDSGREYVAQFEASAFGKQLNLKLLDNWD SLSSTVSKLQEQLGPVTQEFWDNLEKETEGLREEMNKDLQEVRQKVQPFL DEFQKKWQEEVERYRQKVEPLGAELGESARQKLTELQEKLSPLAEELRDS ARTHVDTLRTKLAPYSNELQRLAARLESIKEGGGAKLAEYQAKAREHLSVLS EKARPALEDLRQGLLPVLESFKASVQNVVDEATKKLNTQ

[ACTIVITY]

Apolipoprotein A1 (APOA1) is the major protein component of HDL particles in plasma. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA1 was also isolated as a prostacyclin (PGI2) stabilizing factor, and thus may have an anticlotting effect. ApoA1 is often used as a biomarker for prediction of cardiovascular diseases. Besides, Plasminogen Activator, Urokinase (uPA) has been identified as an interactor of APOA1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rabbit APOA1 and recombinant human uPA. Briefly, APOA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to uPA-coated microtiter wells and incubated for 2h at 37 °C. Wells were washed with PBST and incubated for 1h with anti-APOA1 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 °C. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of APOA1 and uPA was shown in Figure 1, and this effect was in a dose dependent manner.

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[IDENTIFICATION]

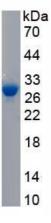


Figure 2. SDS-PAGE

Sample: Active recombinant APOA1, Rabbit

[<u>IMPORTANT NOTE</u>]

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The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.