

Human Apolipoprotein A1 protein, His tag

Cat. No. GTX00221-pro

Applications	Functional Assay	Package 10 μg
Species	Human	13

Applications

Application Note

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, Haptoglobin (Hpt) has been identified as an interactor of APOA1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human APOA1 and recombinant human Hpt. Briefly, APOA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Hpt-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 450nm immediately. The binding activity of APOA1 and Hpt was in a dose dependent manner.

Observed MW (kDa) 17 kDa.

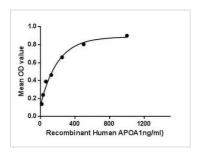
Properties		
Form	Lyophilized powder	
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.	
Preservative	ProClin 300	
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.	
Region/Sequence	N-terminal His-Tag; Gln122~Gln267 (NP_000030.1)	
Expression System	E. coli	
Purity	> 95%	
Endotoxin	< 1 EU/μg	
Conjugation	Unconjugated	
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	



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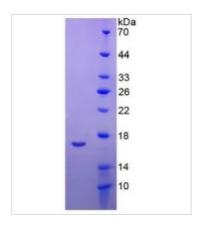
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DATA IMAGES



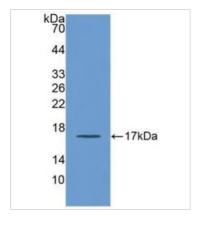
GTX00221-pro Functional Assay Image

Functional ELISA analysis of GTX00221-pro Human Apolipoprotein A1 protein which can bind immobilized Hpt protein.



GTX00221-pro Image

SDS-PAGE analysis of GTX00221-pro Human Apolipoprotein A1 protein.



GTX00221-pro Image

WB analysis of GTX00221-pro Human Apolipoprotein A1 protein.



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