

Active Recombinant Human APOC1 protein, His-tagged

Cat. No. APOC1-302H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human APOC1 protein(P02654)(31~83 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	31-83 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Apolipoprotein C1 (APOC1), also known as Apo-CI; Ap^oC-I; apo-CIB; ap^oC-IB, is the smallest size apolipoprotein of all apolipoprotein C family (Mr = 6.6 kDa) and located at position 19q13.32. APOC1 is primarily expressed in the liver and activated when monocytes differentiate into macrophages. It plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. It has anti-inflammatory activity and also can promote the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells. Besides, Apolipoprotein C3 (APOC3) has been identified as an interactor of APOC1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human APOC1 and recombinant mouse APOC3. Briefly, APOC1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to APOC3-coated microtiter wells and incubated for 1h

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at 37°C. Wells were washed with PBST and incubated for 1h with anti-APOC1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 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 recombinant human APOC1 and recombinant mouse APOC3 was shown, the EC50 for this effect is 2.19 ug/mL.

Molecular Mass	7.5kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 80% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	APOC1 apolipoprotein C-I [Homo sapiens]
Official Symbol	APOC1
Synonyms	APOC1; apolipoprotein C-I; apo-CIB; apoC-IB; apolipoprotein C1;
Gene ID	341
mRNA Refseq	NM_001645

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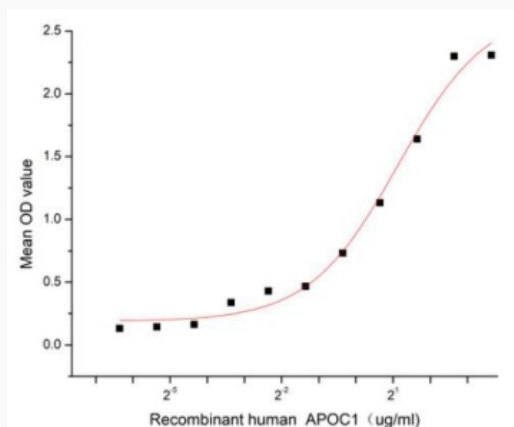
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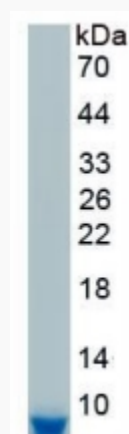
MIM 107710

UniProt ID P02654

Activity



SDS-PAGE



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