

# Active Recombinant Human APOC1 protein, His-GST-tagged

Cat. No. APOC1-220H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human APOC1 protein(P02654)(27~83 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	27-83 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Apolipoprotein C1 (APOC1), also known as Apo-CI; Ap<sup>o</sup>C-I; apo-CIB; ap<sup>o</sup>C-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 A1 (APOA1) 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 human APOA1. Briefly, APOC1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to APOA1-coated microtiter wells and incubated for 1h</p>

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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  $\mu$  stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human APOC1 and recombinant human APOA1 was shown, the EC50 for this effect is 0.46 ug/mL.

<b>Molecular Mass</b>	36.6kDa
<b>Endotoxin</b>	<1.0EU per 1 $\mu$ g (determined by the LAL method).
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	APOC1 apolipoprotein C-I [ Homo sapiens ]
<b>Official Symbol</b>	APOC1
<b>Synonyms</b>	APOC1; apolipoprotein C-I; apo-C1B; apoC-1B; apolipoprotein C1;
<b>Gene ID</b>	341
<b>mRNA Refseq</b>	NM_001645

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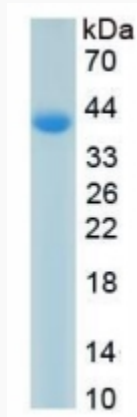
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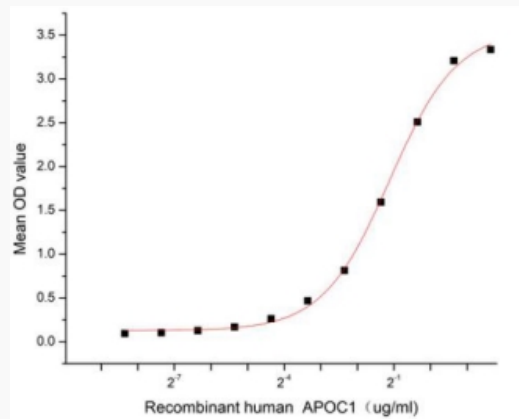
MIM 107710

UniProt ID P02654

SDS-PAGE



Activity



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