

Apolipoprotein C1 (APOC1) Active Protein | APOC1 active protein

Active Apolipoprotein C1 (APOC1)

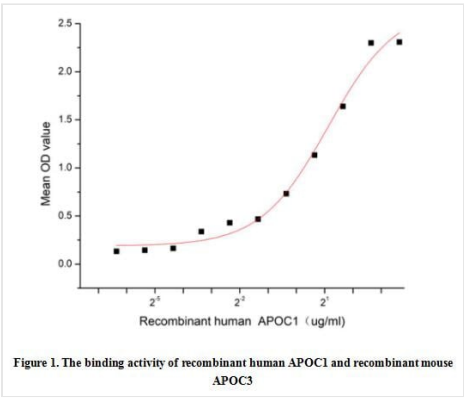
CATALOG # AAA161719	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Apolipoprotein C1 (APOC1); Active Apolipoprotein C1 (APOC1); Apolipoprotein C1; Apo-C1; Truncated apolipoprotein C-I4; APOC1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 80% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ser31~Ser83
Applicable Applications for APOC1 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.1
Research Area	Metabolic pathway
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

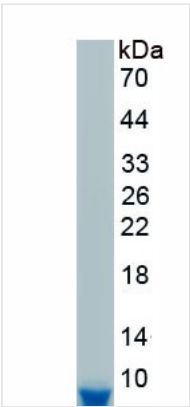


Bioactivity

Apolipoprotein C1 (APOC1), also known as Apo-CI; ApoC-I; apoC-IB; apoC-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 ul were then transferred to APOC3-coated microtiter wells and incubated for 1h at 37 degree 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL 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 in Figure 1, the EC50 for this effect is 2.19 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for APOC1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502157
NCBI GeneID	341
NCBI Accession #	NP_001636.1
NCBI GenBank Nucleotide #	NM_001645.3
UniProt Accession #	P02654; Q6IB97
Molecular Weight	9,332 Da
NCBI Official Full Name	apolipoprotein C-I
NCBI Official Synonym Full Names	apolipoprotein C-I
NCBI Official Symbol	APOC1
NCBI Protein Information	apolipoprotein C-I; apo-CIB; apoC-IB; apolipoprotein C1
UniProt Protein Name	Apolipoprotein C-I
UniProt Gene Name	APOC1
UniProt Synonym Gene Names	APOC1B; Apo-CIB; ApoC-IB; Apo-CIB'; ApoC-IB'

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.

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Online datasheet: <https://www.aaabiotech.com/e-coli-active-protein/apolipoprotein-c1-apoc1/161719>