

Recombinant Mouse Apoc3 protein, His-tagged

Cat. No. Apoc3-1939M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Apoc3 protein(21-99 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	21-99 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Bio-activity	Apolipoprotein C3 (APOC3) also known as apo-CIII is a component of very low density lipoprotein (VLDL). APOC3 inhibits lipoprotein lipase and hepatic lipase; it is thought to inhibit hepatic uptake of triglyceride-rich particles. An increase in apoC-III levels induces the development of hypertriglyceridemia. Some evidences suggest an intracellular role for Apo-CIII in promoting the assembly and secretion of triglyceride-rich VLDL particles from hepatic cells under lipid-rich conditions. Besides, Prenylcysteine Oxidase 1 (PCYOX1) has been identified as an interactor of APOC3, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse APOC3 and recombinant mouse PCYOX1. Briefly, APOC3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to PCYOX1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-APOC3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells

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were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of APOC3 and PCYOX1 was in a dose dependent manner.

Molecular Mass	10.4kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

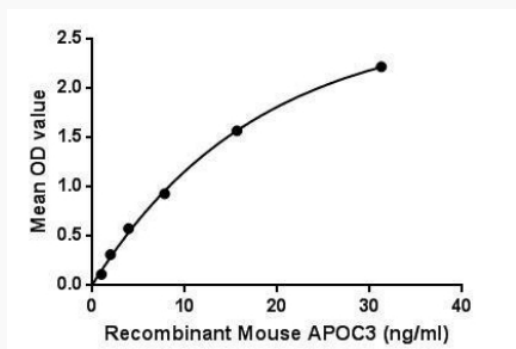
Gene Name	Apoc3 apolipoprotein C-III [Mus musculus]
Official Symbol	Apoc3
Synonyms	APOC3; apolipoprotein C-III; apo-CIII; apoC-III; apolipoprotein C3; Apoc;
Gene ID	11814
mRNA Refseq	NM_023114
Protein Refseq	NP_075603

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Activity



SDS-PAGE

