

Recombinant Rat Apob Protein, His-tagged

Cat. No. Apob-217R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Apob Protein (Asp29-Val293) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Asp29-Val293
Description	This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins. It occurs in plasma as two main isoforms, apoB-L and apoB-H. Unlike the apoB-48 and apoB-100 structural equivalents in human, which are synthesized exclusively in the gut and liver, respectively, the rat apoBL isoform is also found in rat liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-L protein is produced after RNA editing of the apoB-H transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.4 kDa Accurate Molecular Mass: 33 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Apob apolipoprotein B [Rattus norvegicus (Norway rat)]
Official Symbol	Apob
Synonyms	APOB; apolipoprotein B; apolipoprotein B-100; apolipoprotein B PI; apolipoprotein B-48; apolipoprotein B (including Ag(x) antigen); Aa1064; Ac1-060; ApoB-48; ApoB-100; Apo B-100
Gene ID	54225
mRNA Refseq	NM_019287
Protein Refseq	NP_062160
UniProt ID	Q7TMA5

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