

Recombinant Cattle APOB Protein, His-tagged

Cat. No. APOB-218C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle APOB Protein (Thr4331-Phe4567) with N-His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Thr4331-Phe4567
Description	This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins (LDL), and is the ligand for the LDL receptor. It occurs in plasma as two main isoforms, apoB-48 and apoB-100: the former is synthesized exclusively in the gut and the latter in the 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-48 protein is produced after RNA editing of the apoB-100 transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. Mutations in this gene or its regulatory region cause hypobetalipoproteinemia, normotriglyceridemic hypobetalipoproteinemia, and hypercholesterolemia due to ligand-defective apoB, diseases affecting plasma cholesterol and apoB levels.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.4 kDa Accurate Molecular Mass: 30 kDa

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Purity	> 90%
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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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 [Bos taurus (cattle)]
Official Symbol	APOB
Synonyms	APOB; apolipoprotein B; APOB-100; ApoB(100); apolipoprotein B-100
Gene ID	494004
mRNA Refseq	XM_024999521
Protein Refseq	XP_024855289

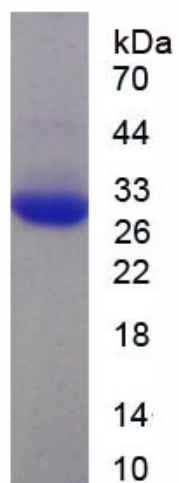
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UniProt ID

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