

## APOB Rabbit Polyclonal Antibody

| Cat. No. | Product Name                    | Pack Size |
|----------|---------------------------------|-----------|
| AF6213   | APOB Rabbit Polyclonal Antibody | 50μl      |

### Description:

| Source | Applications | Cross-reactivity | Theoretical M.W. | Actual M.W. |
|--------|--------------|------------------|------------------|-------------|
| Rabbit | WB, IF       | H, M, R          | 515kDa           | 110kDa      |

WB, Western blot; IP, Immunoprecipitation; IF, Immunofluorescence; IHC, Immunohistochemistry; ICC, Immunocytochemistry; FC, Flow Cytometry; ChIP, Chromatin Immunoprecipitation Assay; ChIP-seq, ChIP-sequencing.

H, Human; M, Mouse; R, Rat; C, Chicken; Cw, Cow; Dg, Dog; Gp, Guinea pig; Hm, Hamster; Hr, Horse; Mk, Monkey; Pg, Pig; Rb, Rabbit; S, Sheep; Z, Zebrafish; All, all species expected.

- A Primary Antibody Dilution Buffer is provided with this product and can be used for primary antibody dilution in Western blot or other applications.
- The recommended dilution factors of this product in different applications are as follows. They can be adjusted appropriately according to the level of antigen in samples.

| WB           | IP | IF         | IHC | ICC | FC | ChIP | ChIP-seq |
|--------------|----|------------|-----|-----|----|------|----------|
| 1:200-1:2000 | -  | 1:50-1:200 | -   | -   | -  | -    | -        |

- The detailed information is as follows:

| About this Antibody |  |
|---------------------|--|
| Name                | APOB Rabbit Polyclonal Antibody  |
| Category            | Rabbit Polyclonal Antibody (pAb); Primary antibody   |
| Isotype             | IgG  |
| Purification method | Affinity purification  |
| Positive samples    | LO2, HepG2, HL-60, Mouse liver, Mouse kidney, Rat liver, Rat kidney  |
| Cellular location   | Cytoplasm, Secreted  |
| Customer validation | -  |
| About the Immunogen |  |
| Immunogen           | Recombinant fusion protein of human APOB (NP_000375.2).  |
| Sequence            | EEEMLENVSLVCPKDATRFKHLRKYTYNYEAESSGVPGTADSRSATRINCKVELEVPQLCSFILK<br>TSQCTLKEVYGFNPEGKALLKKTNSEEFAAAMSRYELKLAIPGKQVFLYPEKDEPTYILNIKRG<br>IISALLVPPETEEAKQVLFLDTVYGNCSHTFTVKTRKGNVATEISTERDLGQCDRFKPIRTGISPLAL<br>IKGMTRPLSTLISSQSCQYTLDAKRKHVAEAIKCEQHFLPFSYKNKYGMVAQVTQTLKLEDTP<br>KINSRFFGEGTKKMGLAFESTKSTSPPKQAEAVLKTLLQ  |
| Gene ID             | 338  |
| Swiss Prot          | P04114   |
| Synonyms            | APOB; FLDB; LDLCQ4; apoB-100; apoB-48; apolipoprotein B  |
| Category            | Insulin Signaling  |
| Background          | Apolipoprotein B is the main apolipoprotein of chylomicrons and a low-density lipoprotein. 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. |

## Packing List:

| Item   | Component   | Quantity   |
|--------|---|------------|
| AF6213 | APOB Rabbit Polyclonal Antibody                   | 50 $\mu$ l |
| AZ050  | Primary Antibody Dilution Buffer for Western Blot | 50ml       |
| Manual | —   | 1 copy     |

## Storage Conditions:

Store the Antibody at -20°C and Primary Antibody Dilution Buffer at 4°C for up to one year. The Primary Antibody Dilution Buffer can be stored at -20°C for long-term storage, but freeze-thaw may result in slight turbidity and a small amount of insoluble substance.

## Precautions:

- This product can be recovered for multiple reuses (5-10 times) in Western blot (WB), immunofluorescence (IF), and immunocytochemistry (ICC). Store the unused or recovered diluted antibodies at 4°C.
- The recovered antibodies can be reused in the same way as freshly diluted antibodies. If slight turbidity appears, centrifuge the antibody at 10,000 $\times$ g for 1-3 minutes and use the supernatant for subsequent assays. But it should be discarded when there is significant flocculation or any microbial growth.
- The Primary Antibody Dilution Buffer included in this product can also be used in immunofluorescence (IF), immunohistochemistry (IHC), immunocytochemistry (ICC), and other appropriate applications. But for optimal results, we recommend using the primary antibody dilution buffer specifically designed for each assay.
- This product is for R&D only. Not for drug, household, or other uses.
- For your safety and health, please wear a lab coat and disposable gloves during the operation.

## Instructions for Use:

### 1. Western blot

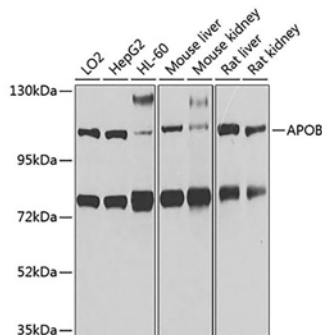
- Dilute an appropriate amount of the Antibody with the provided Primary Antibody Dilution Buffer to an appropriate concentration as required.
- Transfer the blocked membrane into the diluted primary antibody and incubate at room temperature for 2 hours or overnight at 4°C with gently shaking. The membrane should be covered completely by the diluted antibody.
- Recover the diluted primary antibody and store at 4°C for later use.
- Proceed to next step in Western blot. For detailed procedures of Western blot, please refer to <http://www.beyotime.com/support/western.htm>.

### 2. Immunostaining

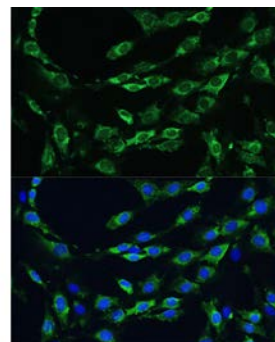
For Immunostaining, we recommend using the Immunol Staining Primary Antibody Dilution Buffer (Beyotime, P0103) to dilute the Antibody. The diluted antibody can be recovered for multiple reuses. For detailed procedures of Immunostaining, please refer to <http://www.beyotime.com/support/immunol-staining.htm>.

### 3. For other applications, please refer to appropriate protocols.

### 4. Typical figures



**Fig. 1.** Immunofluorescence analysis of C6 cells using APOB antibody at dilution of 1:100.



**Fig. 2.** Immunofluorescence analysis of U-2 OS cells using APOB antibody at dilution of 1:100. Blue: Nuclei stained by DAPI.

## Related Products:

| Cat. No.      | Product Name   | Pack Size       |
|---------------|--|-----------------|
| E6001         | MiniProGel™ Protein Gel-Cast and Electrophoresis System (4-gel)                  | 1 Set           |
| E6005         | MiniProGel™ Protein Gel-Cast and Electrophoresis System (2-gel)                  | 1 Set           |
| E6050         | MiniBlot™ Electrophoretic Transfer Cell  | 1 Set           |
| E6150         | MiniProGel™ Protein Gel-Cast, Electrophoresis and Transfer System (2-gel/2-blot) | 1 Set           |
| E6155         | MiniProGel™ Protein Gel-Cast, Electrophoresis and Transfer System (4-gel/2-blot) | 1 Set           |
| E6159         | MiniProGel™ Protein Gel-Cast, Electrophoresis and Transfer System (4-gel/4-blot) | 1 Set           |
| E6080         | BeyoPower™ Elite Power Supply (300V/600mA/100W)                                  | 1 Set           |
| E6085         | BeyoPower™ Prime Power Supply (300V/2000mA/200W)                                 | 1 Set           |
| E6600         | TissueMaster™ Handheld Homogenizer   | 1 Set           |
| EI600         | BeyoImager™ 600 Chemiluminescent Imaging System                                  | 1 Set           |
| FFP24         | PVDF Membrane (6.6×8.5cm, 0.2µm)   | 20 pcs/Package  |
| FFP32         | PVDF Membrane (6.6×8.5cm, 0.45µm)  | 20 pcs/Package  |
| FFP51         | Filter Paper for Blotting Transfer   | 100 pcs/Package |
| FFX050-FFX055 | Western Membrane Washing Box   | 1               |
| P0006         | Bradford Protein Assay Kit   | 1000T           |
| P0012         | BCA Protein Assay Kit  | 500T            |
| P0012A        | SDS-PAGE Gel Preparation Kit   | 30-50 gels      |
| P0012AC       | SDS-PAGE Gel Quick Preparation Kit   | 30-50 gels      |
| P0013         | Cell Lysis Buffer for Western or IP  | 100ml           |
| P0013B-P0013D | RIPA Lysis Buffer Set (Strong, Medium and Weak)                                  | 100ml           |
| P0014A/P0014B | SDS-PAGE Electrophoresis Buffer with Tris-Gly, Powder                            | 1L/10L          |
| P0014C/P0014D | SDS-PAGE Electrophoresis Buffer with Tris-Gly, 10X                               | 100ml/500ml     |
| P0015/P0015L  | SDS-PAGE Sample Loading Buffer (5X)  | 2ml/15ml        |
| P0015F        | SDS-PAGE Sample Loading Buffer (6X)  | 2ml             |
| P0017F        | BeyoBlue™ Coomassie Blue Super Fast Staining Solution                            | 250ml           |
| P0018A        | BeyoECL Star   | 100ml/500ml     |
| P0018F        | BeyoECL Moon   | 100ml/500ml     |
| P0018S/P0018M | BeyoECL Plus   | 100ml/500ml     |
| P0021A        | Western Transfer Buffer  | 1L              |
| P0021S        | Soaking and Activation Buffer for PVDF Membrane                                  | 250ml           |
| P0022         | Ponceau S Staining Solution  | 120ml           |
| P0023A        | Primary Antibody Dilution Buffer for Western Blot                                | 100ml/500ml     |
| P0023B        | Blocking Buffer for Western Blot   | 100ml/500ml     |
| P0023C        | Wash Buffer for Western Blot   | 250ml           |
| P0023D        | Secondary Antibody Dilution Buffer for Western Blot                              | 100ml/500ml     |
| P0025         | Western Stripping Buffer   | 250ml           |
| P0059         | Recombinant 16-Tag Protein   | 200µl/1ml       |
| P0066         | Prestained Protein Molecular Weight Marker (19-117kD)                            | 200µl           |
| P0068         | Prestained Color Protein Ladder (10-180kD)                                       | 200µl           |
| P0071         | BeyoColor™ Prestained Color Protein Ladder (6.5-270kD)                           | 200µl           |
| P0075         | BeyoColor™ Prestained Color Protein Ladder (10-170kD)                            | 200µl           |
| P0078         | BeyoColor™ Prestained Color Protein Ladder (15-120kD)                            | 200µl           |
| P0095         | Immunostaining Permeabilization Buffer with Saponin                              | 100ml/500ml     |
| P0096         | Immunostaining Permeabilization Buffer with Triton X-100                         | 100ml/500ml     |

|             |  |                  |
|-------------|--|------------------|
| P0097       | Enhanced Immunostaining Permeabilization Buffer                              | 100ml/500ml      |
| P0098       | Immunol Staining Fix Solution  | 100ml/500ml      |
| P0099       | 4% Paraformaldehyde Fix Solution   | 100ml/500ml      |
| P0102       | Immunol Staining Blocking Solution   | 100ml            |
| P0103       | Immunol Staining Primary Antibody Dilution Buffer                            | 100ml            |
| P0106       | Immunol Staining Wash Buffer   | 250ml            |
| P0108       | Immunol Fluorescence Staining Secondary Antibody Dilution Solution           | 100ml            |
| P0220-P0235 | QuickBlock™ Blocking Buffer  | 100ml            |
| P0252       | QuickBlock™ Western Blocking Buffer  | 100ml/500ml      |
| P0256       | QuickBlock™ Primary Antibody Dilution Buffer for Western Blot                | 100ml/500ml      |
| P0258       | QuickBlock™ Secondary Antibody Dilution Buffer for Western Blot              | 100ml/500ml      |
| P0260       | QuickBlock™ Blocking Buffer for Immunol Staining                             | 100ml            |
| P0262       | QuickBlock™ Primary Antibody Dilution Buffer for Immunol Staining            | 100ml            |
| P0265       | QuickBlock™ Secondary Antibody Dilution Buffer for Immunofluorescence        | 100ml            |
| P0267       | QuickBlock™ Secondary Antibody Dilution Buffer for Immunohistochemistry      | 100ml            |
| P0280       | InstantView™ SDS-PAGE Protein Staining and Loading Buffer (5X)               | 1ml              |
| P0050-P0058 | BeyoGel™ SDS-PAGE Precast Gel (Tris-Gly, 12 wells)                           | 10pcs/50pcs      |
| P0448-P0472 | BeyoGel™ Plus Precast PAGE Gel (Tris-Gly, 10/15 wells)                       | 10pcs/50pcs      |
| P0501-P0528 | BeyoGel™ Plus Precast PAGE Gel (Hepes, 10/15 wells)                          | 10pcs/50pcs      |
| P0552       | BeyoGel™ Plus SDS-PAGE Hepes Electrophoresis Buffer                          | 100ml/500ml      |
| P0670-P0678 | SDS-PAGE Resolving Gel Master Mix  | 250ml/500ml      |
| P0683       | SDS-PAGE Stacking Gel Master Mix   | 250ml/500ml      |
| P0686-P0695 | SDS-PAGE Gel SuperQuick Preparation Kit                                      | 30-50 gels       |
| P1005-P1031 | Protease inhibitor cocktail (50X/100X)                                       | 1ml/5ml          |
| P1045-P1066 | Protease and phosphatase inhibitor cocktail (50X)                            | 1ml/2ml/5ml/10ml |
| P1081-P1097 | Phosphatase inhibitor cocktail (50X)   | 2ml/10ml         |
| P1112/P1113 | Deacetylase Inhibitor Cocktail (100X)  | 1ml/5ml          |
| R0121       | AllProtect™ Nucleic Acid and Protein Stabilization Reagent for Animal Tissue | 25ml/100ml       |

Version 2019.09.27