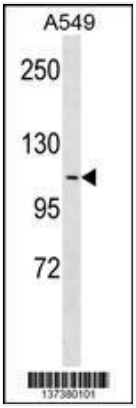
# APOB48R Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | APOB48R, Polyclonal Antibody |
| **Full Product Name** | APOB48R, ID (APOBR, APOB48R, Apolipoprotein B receptor, Apolipoprotein B-100 receptor, Apolipoprotein B-48 receptor) (Biotin) |
| **Product Gene Name** | anti-APOB48R antibody |
| **Product Synonym Names** | APOBR; APOB48R; Apolipoprotein B receptor; Apolipoprotein B-100 receptor; Apolipoprotein B-48 receptor |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **OMIM** | 605220 |
| **3D Structure** | ModBase 3D Structure for Q0VD83 |
| **Immunogen** | APOB48R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 595-622 amino acids from the Central region of human APOB48R. |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-APOB48R antibody** | Antibodies; Lipoproteins |
| **Applications Tested/Suitable for anti-APOB48R antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-APOB48R antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-APOB48R antibody** | Apolipoprotein B48 receptor is a macrophage receptor that binds to the apolipoprotein B48 of dietary triglyceride (TG)-rich lipoproteins. This receptor may provide essential lipids, lipid-soluble vitamins and other nutrients to reticuloendothelial cells. If overwhelmed with elevated plasma triglyceride, the apolipoprotein B48 receptor may contribute to foam cell formation, endothelial dysfunction, and atherothrombogenesis. [provided by RefSeq]. |
| **Product References and Citations for anti-APOB48R antibody** | Kawakami, A., et al. Arterioscler. Thromb. Vasc. Biol. 25(2):424-429(2005). Fujita, Y., et al. J. Hum. Genet. 50(4):203-209(2005). Brown, M.L., et al. Proc. Natl. Acad. Sci. U.S.A. 97(13):7488-7493(2000). |
| **Other Notes** | Small volumes of anti-APOB48R antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for APOB48R purchase** | MBS6274392 is an antibody targeting APOB48R. Also known as APOB48R, ID (APOBR, APOB48R, Apolipoprotein B receptor, Apolipoprotein B-100 receptor, Apolipoprotein B-48 receptor) (Biotin). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-APOB48R antibody**
APOB48R Antibody (Center) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the APOB48R antibody detected the APOB48R protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOB48R. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 119220598 |
| **NCBI GeneID** | 55911 |
| **NCBI Accession #** | NP_061160.2 |
| **UniProt Primary Accession #** | Q0VD83 |
| **UniProt Related Accession #** | Q0VD83 |
| **GenBank Nucleotide #** | NP_061160.2 |
| **NCBI Official Full Name** | apolipoprotein B receptor |
| **NCBI Official Synonym Full Names** | apolipoprotein B receptor |
| **NCBI Official Symbol** | APOBR |
| **NCBI Official Synonym Symbols** | APOB48R; APOB100R |
| **UniProt Protein Name** | Apolipoprotein B receptor |
| **UniProt Synonym Protein Names** | Apolipoprotein B-100 receptor; Apolipoprotein B-48 receptor |
| **UniProt Gene Name** | APOBR |
| **UniProt Synonym Gene Names** | APOB48R; Apolipoprotein B48 receptor; apoB-48R |
| **UniProt Entry Name** | APOBR_HUMAN |
| **NCBI Protein Information** | apolipoprotein B receptor |
| **NCBI Summary for APOB48R** | Apolipoprotein B48 receptor is a macrophage receptor that binds to the apolipoprotein B48 of dietary triglyceride (TG)-rich lipoproteins. This receptor may provide essential lipids, lipid-soluble vitamins and other nutrients to reticuloendothelial cells. If overwhelmed with elevated plasma triglyceride, the apolipoprotein B48 receptor may contribute to foam cell formation, endothelial dysfunction, and atherothrombogenesis. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for APOB48R** | APOB48R: Macrophage receptor that binds to the apolipoprotein B48 (APOB) of dietary triglyceride (TG)-rich lipoproteins (TRL) or to a like domain of APOB in hypertriglyceridemic very low density lipoprotein (HTG-VLDL). Binds and internalizes TRL when out of the context of the macrophage. May provide essential lipids to reticuloendothelial cells. Could also be involved in foam cell formation with elevated TRL and remnant lipoprotein (RLP). Mediates the rapid high-affinity uptake of chylomicrons (CM), HTG- VLDL, and trypsinized (tryp) VLDL devoid of APOE in vitro in macrophages. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Receptor, misc.<br><br>Chromosomal Location of Human Ortholog: 16p11<br><br>Cellular Component: chylomicron; membrane; plasma membrane<br><br>Molecular Function: very-low-density lipoprotein receptor activity<br><br>Biological Process: receptor-mediated endocytosis; cholesterol metabolic process; triacylglycerol metabolic process; lipid transport |
| **Research Articles on APOB48R** | **1.** the findings reported here demonstrated that patients with mutations in FASN (c.G7192T, p.A2398S) and APOBR (c.C1883G, p.T628R) may be predisposed to hypothyroidism. These mutations may disrupt the regulation of fatty acid biosynthesis and lipid metabolism. These findings may reveal the high degree of genetic heterogeneity in hypothyroidism phenotypes. |
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