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APOB48R Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18657c

Specification

APOB48R Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q0VD83

APOB48R Antibody (Center) Blocking Peptide - Additional Information

Gene ID 55911

Other Names
Apolipoprotein B receptor, Apolipoprotein B-100 receptor, Apolipoprotein B-48 receptor, Apolipoprotein B48 receptor, apoB-48R, APOBR, APOB48R

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

APOB48R Antibody (Center) Blocking Peptide - Protein Information

Name APOBR (HGNC:24087)

Synonyms APOB48R

Function
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.

Cellular Location
Cell membrane; Peripheral membrane protein. Note=Binds monocyte-macrophage membrane. Thought to be anchored in the membrane through an interaction with an integral membrane protein

Tissue Location
Expressed in peripheral blood leukocytes > bone marrow = spleen > lymph node, and only faintly visible in appendix and thymus. Expressed in the brain, heart, kidney, liver, lung, pancreas, and

placenta. Expressed primarily by reticuloendothelial cells: monocytes, macrophages, and endothelial cells. Expressed in atherosclerotic lesion foam cells.

APOB48R Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

APOB48R Antibody (Center) Blocking Peptide - Images

APOB48R Antibody (Center) Blocking Peptide - Background

Apolipoprotein B48 receptor is a macrophage receptor thatbinds to the apolipoprotein B48 of dietary triglyceride (TG)-richlipoproteins. This receptor may provide essential lipids,lipid-soluble vitamins and other nutrients to reticuloendothelialcells. If overwhelmed with elevated plasma triglyceride, theapolipoprotein B48 receptor may contribute to foam cell formation,endothelial dysfunction, and atherothrombogenesis. [provided byRefSeq].

APOB48R Antibody (Center) Blocking Peptide - References

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)