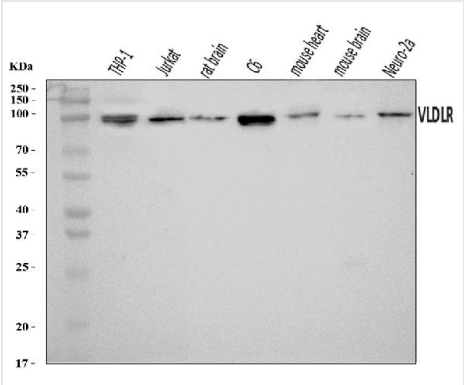
VLDL Receptor/VLDLR (VLDLR) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

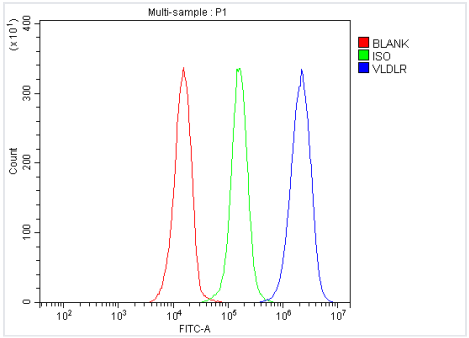
Product Name	VLDL Receptor/VLDLR, Polyclonal Antibody
Full Product Name	Anti-VLDL Receptor/VLDLR Antibody Picoband
Product Gene Name	anti-VLDLR antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	96,098 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (2621793..2654485). Location: 9p24
OMIM	192977
3D Structure	ModBase 3D Structure for P98155
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human VLDL Receptor/VLDLR recombinant protein (Position: R231-S770).
Product Categories/Family for anti-VLDLR antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-VLDLR antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-VLDLR antibody	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat FC/FACS: 1-3 ug/1x10^6 cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-VLDLR antibody	The very-low-density-lipoprotein receptor (VLDLR) is a transmembrane lipoprotein receptor of the low-density-lipoprotein (LDL) receptor family. The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. This gene encodes a lipoprotein receptor that is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypoplasia. Alternative splicing generates multiple transcript variants encoding distinct isoforms for this gene.
Other Notes	Small volumes of anti-VLDLR 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 VLDLR purchase	MBS1755053 is an antibody targeting VLDLR. Also known as Anti-VLDL Receptor/VLDLR Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-VLDLR antibody

Figure 1. Western blot analysis of VLDL Receptor/VLDLR using anti-VLDL Receptor/VLDLR antibody (MBS1755053).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human THP-1 whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: rat C6 whole cell lysates,Lane 5: mouse heart tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse Neuro-2a whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VLDL Receptor/VLDLR antigen affinity purified polyclonal antibody (#MBS1755053) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for VLDL Receptor/VLDLR at approximately 100 kDa. The expected band size for VLDL Receptor/VLDLR is at 100 kDa.



Flow Cytometry (FC/FACS) of anti-VLDLR antibody

Figure 2. Flow Cytometry analysis of JK cells using anti-VLDL Receptor/VLDLR antibody (MBS1755053).Overlay histogram showing JK cells stained with MBS1755053 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-VLDL Receptor/VLDLR Antibody (MBS1755053, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

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

NCBI GI #	65301167
NCBI GeneID	7436
NCBI Accession #	NP_003374.3
UniProt Primary Accession #	P98155
UniProt Secondary Accession #	Q5VVF6; B2RMZ7; D3DRH6
UniProt Related Accession #	P98155
GenBank Nucleotide #	NM_003383.3
NCBI Official Full Name	very low-density lipoprotein receptor isoform a
NCBI Official Synonym Full Names	very low density lipoprotein receptor
NCBI Official Symbol	VLDLR
NCBI Official Synonym Symbols	CARMQ1; CHRMQ1; VLDLRCH
UniProt Protein Name	Very low-density lipoprotein receptor
Protein Family	Very low-density lipoprotein receptor
UniProt Gene Name	VLDLR
UniProt Synonym Gene Names	VLDL receptor; VLDL-R

UniProt Entry Name	VLDLR_HUMAN
NCBI Protein Information	very low-density lipoprotein receptor; VLDL-R; VLDL receptor
NCBI Summary for VLDLR	The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. This gene encodes a lipoprotein receptor that is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypoplasia. Alternative splicing generates multiple transcript variants encoding distinct isoforms for this gene. [provided by RefSeq, Aug 2009]
UniProt Comments for VLDLR	VLDLR: Binds VLDL and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. Binding to Reelin induces tyrosine phosphorylation of Dab1 and modulation of Tau phosphorylation. Defects in VLDLR are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 1 (CMARQ1); also known as dysequilibrium syndrome (DES) or non- progressive cerebellar disorder with mental retardation. CMARQ1 is a congenital, non-progressive cerebellar ataxia associated with disturbed equilibrium, delayed ambulation, mental retardation and cerebellar hypoplasia. Additional features include short stature, strabismus, pes planus and, rarely, seizures. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 9p24 Cellular Component: membrane; plasma membrane; integral to membrane; coated pit; receptor complex Molecular Function: very-low-density lipoprotein receptor activity; low-density lipoprotein receptor activity; very-low-density lipoprotein binding; protein binding; apolipoprotein binding; calcium ion binding; glycoprotein binding; calcium-dependent protein binding Biological Process: nervous system development; receptor-mediated endocytosis; cholesterol metabolic process; positive regulation of protein kinase activity; ventral spinal cord development; negative regulation of transcription from RNA polymerase II promoter; signal transduction; lipid transport; memory Disease: Cerebellar Ataxia, Mental Retardation, And Dysequilibrium Syndrome 1
Research Articles on VLDLR	**1.** In this report, we present 3 patients from 2 different families displaying very low density lipoprotein receptor-associated pontocerebellar hypoplasia, cortical dysplasia, mental retardation, and bipedal gait.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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