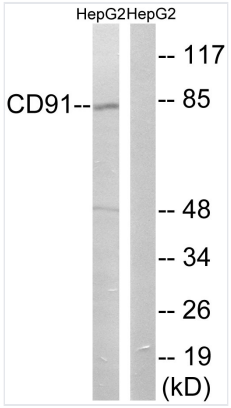
CD91 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD91, Polyclonal Antibody
Full Product Name	CD91 Antibody
Product Gene Name	anti-CD91 antibody
Product Synonym Gene Name	LRP1
Product Synonym Names	A2MR; Alpha-2-macroglobulin receptor; APOER; Apolipoprotein E receptor; CD91; Low-density lipoprotein receptor-related protein 1 precursor; LRP
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	CD91 Antibody detects endogenous levels of total CD91 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	504 kDa
OMIM	X13916 mRNA
3D Structure	ModBase 3D Structure for Q07954
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human CD91.
Immunogen Range	4486-4535
Applications Tested/Suitable for anti-CD91 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CD91 antibody	WB: 1:500~1:1000 ELISA: 1:40000
Related Product Information for anti-CD91 antibody	MBS9504417 is an antibody targeting CD91. Also known as CD91 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CD91 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.



Western Blot (WB) of anti-CD91 antibody
Western blot analysis of lysates from HepG2 cells, using CD91 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD91. It may not necessarily be applicable to this product.

NCBI GI #	126012562
NCBI GeneID	4035
NCBI Accession #	NP_002323.2
UniProt Primary Accession #	Q07954
UniProt Secondary Accession #	Q2PP12; Q86SW0; Q8IVG8
UniProt Related Accession #	Q07954
GenBank Nucleotide #	NM_002332.2
NCBI Official Full Name	prolow-density lipoprotein receptor-related protein 1 preproprotein
NCBI Official Synonym Full Names	LDL receptor related protein 1
NCBI Official Symbol	LRP1
NCBI Official Synonym Symbols	APR; KPA; LRP; A2MR; CD91; APOER; LRP1A; TGFBR5; IGFBP3R; IGFBP-3R; IGFBP3R1
UniProt Protein Name	Prolow-density lipoprotein receptor-related protein 1
UniProt Synonym Protein Names	Alpha-2-macroglobulin receptor
Protein Family	Prolow-density lipoprotein receptor-related protein
UniProt Gene Name	LRP1
UniProt Synonym Gene Names	A2MR; APR; A2MR; APOER; LRP-85; LRP-515; LRPICD
NCBI Protein Information	prolow-density lipoprotein receptor-related protein 1
NCBI Summary for CD91	This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients. [provided by RefSeq, Oct 2015]

UniProt Comments for CD91	Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells. Required for early embryonic development. Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:11907044, PubMed:12888553, PubMed:12713657). Acts as an alpha-2-macroglobulin receptor (PubMed:26142438).
Research Articles on CD91	**1.** Dissecting the interaction between TIMP3 and LRP1 using a synthetic analog of the LRP1 receptor has been reported.
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