Anti-LDL monoclonal antibody, clone 9H2 (DMAB3886MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview
Monoclonal Antibody to Human Low Density Lipoprotein Receptor-Related Protein (LRP), 515kDa

Antigen Description
Low density lipoprotein receptor-related protein 1 (LRP1), also known as alpha-2-macroglobulin receptor (A2MR), apolipoprotein E receptor (APOER) or cluster of differentiation 91 (CD91), is a protein forming a receptor found in the plasma membrane of cells involved in receptor-mediated endocytosis. In humans, the LRP1 protein is encoded by the LRP1 gene.

Specificity
Specifically reacts with the 515kDa alpha-chain of human LRP/alpha2 MR expressed in certain cell types. A strong immunohistochemical reaction is seen in hepatocytes, tissue macrophages, subsets of neurons and astrocytes in the CNS, fibroblasts, smooth mus

Immunogen
Human LRP/alpha2 MR

Isotype
IgG1

Source/Host
Mouse

Species Reactivity
Human

Clone
9H2

Affinity Constant
Not determined

Purification
Protein A chromatography Titration curve of C66700M in indirect ELISA Antigen: Campylobacter jejuni ATCC 29428, coated at approx. 106 bacteria per well. Antibody: Dilution series of C66700M, incubated 1 hour at room temperature followed by Go

Conjugate
Unconjugated

Applications
Western blot (non-reducing conditions): 1–5ug/ml Immunohistochemistry using paraffin and frozen sections: 1–10ug/ml Flow cytometry will recognize an epitope on the extracellular domain. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Format
Purified, Liquid
Concentration | 1mg/ml (OD280nm, E0.1% = 1.36)
Buffer | 0.05M Sodium phosphate containing 0.1M Sodium chloride, pH 7.4
Preservative | None
Storage | Upon receipt, aliquot and store at -70°C. Avoid multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name | LRP1 low density lipoprotein receptor-related protein 1 [Homo sapiens]
Official Symbol | LRP1
Synonyms | LRP1; low density lipoprotein receptor-related protein 1; APR; LRP; A2MR; CD91; APOER; TGFBRI; IGFBP3R; FLJ16451; MGC88725; prolow-density lipoprotein receptor-related protein 1; LRP-1; type V tgf-beta receptor; apolipoprotein E receptor; alpha-2-macroglobulin receptor; TbetaR-V/LRP-1/IGFBP-3 receptor
Entrez Gene ID | 4035
mRNA Refseq | NM_002332
Protein Refseq | NP_002323
MIM | 107770
UniProt ID | Q07954
Chromosome Location | 12q13-q14
Pathway | Alzheimer's disease; Malaria; PDGFR-beta signaling pathway; Statin Pathway; Wnt Signaling Pathway NetPath; amb2 Integrin signaling
Function | apolipoprotein E binding; apolipoprotein binding; calcium ion binding; lipoprotein particle receptor binding; lipoprotein transporter activity; protease binding; protein binding; protein complex binding; receptor activity