

Product datasheet for **BM5513**

LRP1 Mouse Monoclonal Antibody [Clone ID: 8G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8G1
Applications:	FC, IF, IHC, WB
Recommended Dilution:	Immunofluorescence. Immunohistochemistry: 1:20. Flow cytometry. Immunoblotting.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human LRP/α2MR.
Specificity:	8G1 specifically reacts with the 515 kDa α-chain of human LRP/α2MR which is expressed in a restricted spectrum of cell types (for a recent review cf. Herz & Strickland). A strong immunohistochemical reaction is seen in hepatocytes, tissue macrophages, subsets of neurones and astrocytes in the central nervous system, fibroblasts, smooth muscle cells, and monocytederived foam cells in atherosclerotic lesions in the arterial wall. The antibody can also be used for the characterization of a subset of myelo-monocytic subtypes of chronic and acute leukemia (CD 91).
Formulation:	PBS buffer, pH 7.4 containing 0.5% BSA State: Purified State: Lyophilized purified IgG
Reconstitution Method:	Restore in 1 ml dist. water
Purification:	Protein A affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name: LDL receptor related protein 1

Database Link: [Entrez Gene 4035 Human Q07954](#)

Background: Low density lipoprotein receptor-related protein (also known as low density LRP, LRP1, alpha-2-macroglobulin receptor or Apolipoprotein E receptor) is an endocytotic receptor that is involved both in endocytosis and in phagocytosis of apoptotic cells. It is required for early embryonic development, is involved in cellular lipid homeostasis, and may play a role in APP metabolism, kinase-dependent intracellular signalling, neuronal calcium signalling and neurotransmission. Low density LRP also plays a role in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha-2-macroglobulin), and is involved in the local metabolism of complexes of plasminogen activators and their endogenous ligands. Low density LRP is postulated to be one of the major players in host resistance to HIV. The precursor low density LRP molecule is cleaved post-translationally to form a 85 kDa membrane-spanning subunit (LRP-85) and a 515 kDa large extracellular domain (LRP-515), which remains non-covalently associated with LRP-85. Following cleavage, the intracellular domain (LPRICD) is present in both the cytoplasm and the nucleus.

Synonyms: A2MR, APR, APOER