

Product datasheet for **SM1729R**

LRP1 Mouse Monoclonal Antibody [Clone ID: alpha2MRalpha2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	alpha2MRalpha2
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10 ⁶ cells in 100 µl.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified alpha2 macroglobulin receptor. Spleen cells from immunised Balb/c mice were fused with cells of the NS1 mouse myeloma cell line.
Specificity:	This antibody, clone A2Mr alpha-2 recognizes Human CD91 a type I membrane protein which is also known as the alpha 2 macroglobulin receptor (alpha 2MR). This antibody recognizes an epitope in the extracellular region of the 500kD alpha chain.
Formulation:	PBS, pH 7.4 Label: PE State: Lyophilized purified IgG fraction Stabilizer: 1% BSA, 5% Sucrose Preservative: 0.09% Sodium Azide Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1.0 ml distilled water
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	LDL receptor related protein 1



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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