

## Product datasheet for **SM1729PS**

### LRP1 Mouse Monoclonal Antibody [Clone ID: alpha2MRalpha2]

#### Product data:

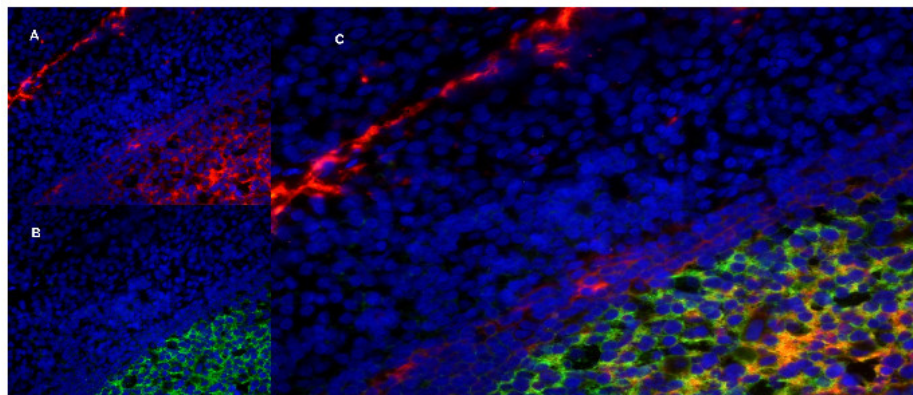
Product Type:	Primary Antibodies
Clone Name:	alpha2MRalpha2
Applications:	ELISA, FC, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA</b> (Direct). <b>Western Blot</b> (Non-reducing conditions): A2Mr alpha-2 recognizes CD91 under non-reducing conditions. <b>Immunofluorescence.</b> <b>Flow Cytometry:</b> Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. <b>Immunoprecipitation.</b> <b>Immunohistochemistry on Frozen Sections.</b> <i>Recommended Positive Control:</i> Liver tissue. <b>Immunohistochemistry on Paraffin Sections:</b> clone A2Mr alpha-2 has been used extensively for the detection of CD91 by immunohistochemistry on formalin fixed paraffin embedded tissues (Bourazopoulou et al. 2009).
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 CD91 antibody, <b>clone A2Mr alpha-2</b> recognizes CD91, a type I membrane protein which is also known as the alpha 2 macroglobulin receptor (alpha 2MR). This antibody Clone A2Mr alpha-2 detects an epitope within the LRP515 chain.
Formulation:	PBS, pH7.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G



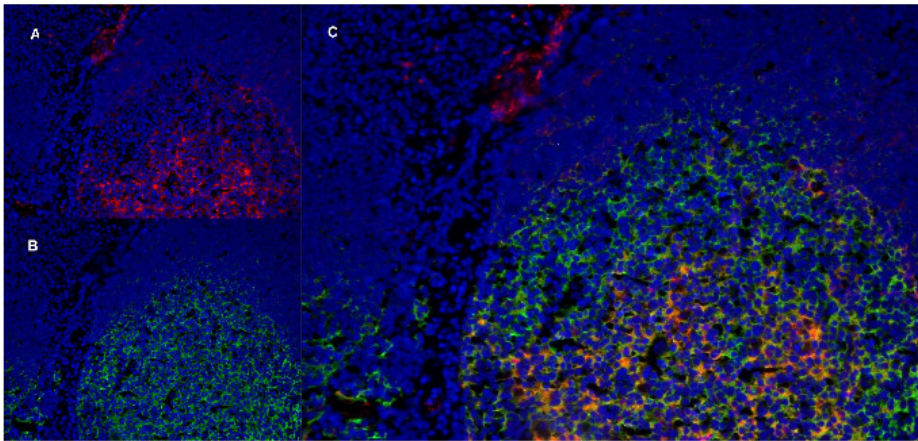
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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	LDL receptor related protein 1
Database Link:	<a href="#">Entrez Gene 4035 Human Q07954</a>
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

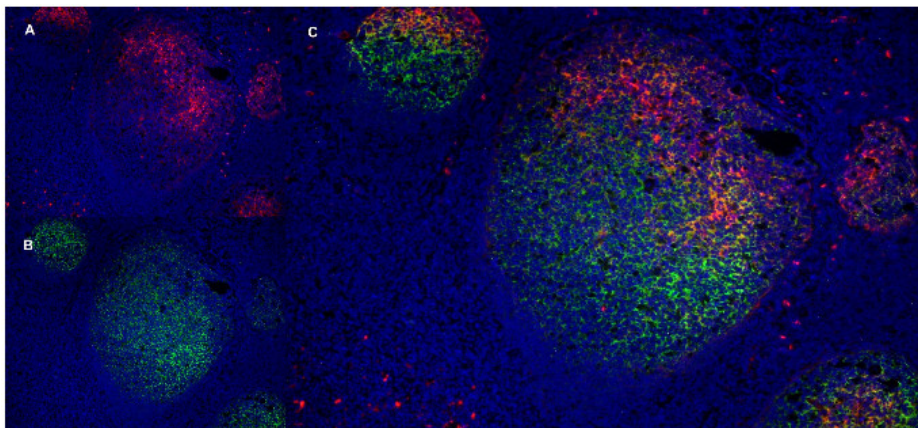
### Product images:



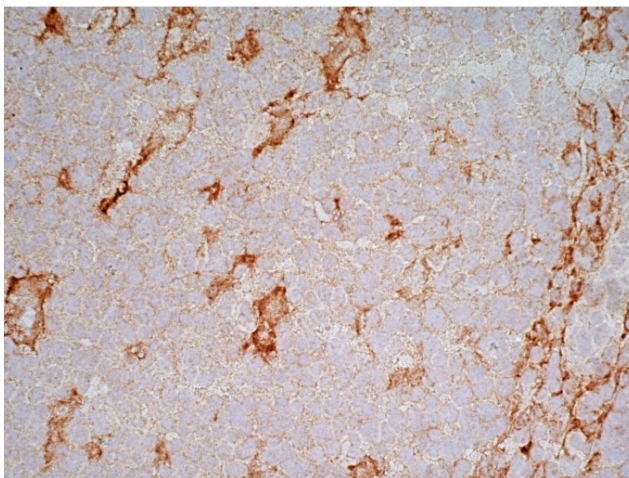
Immunofluorescence staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]), red in A and Mouse anti Human CD21, clone LB21, green in B. C is the merged image with nuclei counterstained blue using DAPI. High power



Immunofluorescence staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]), red in A and Mouse anti Human CD21, clone LB21, green in B. C is the merged image with nuclei counterstained blue using DAPI. Medium power.

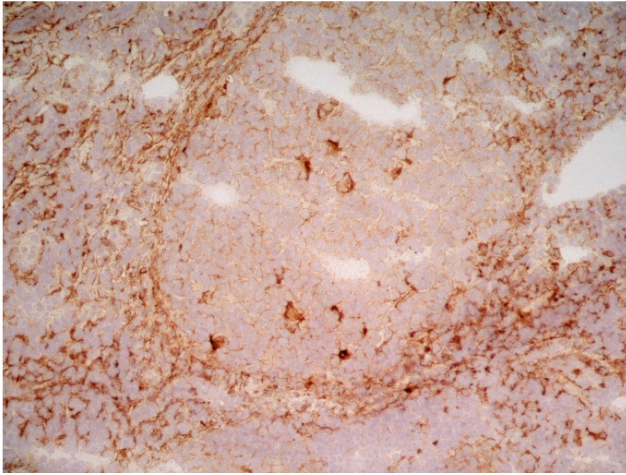


Immunofluorescence staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]), red in A and Mouse anti Human CD21, clone LB21, green in B. C is the merged image with nuclei counterstained blue using DAPI. Low power.

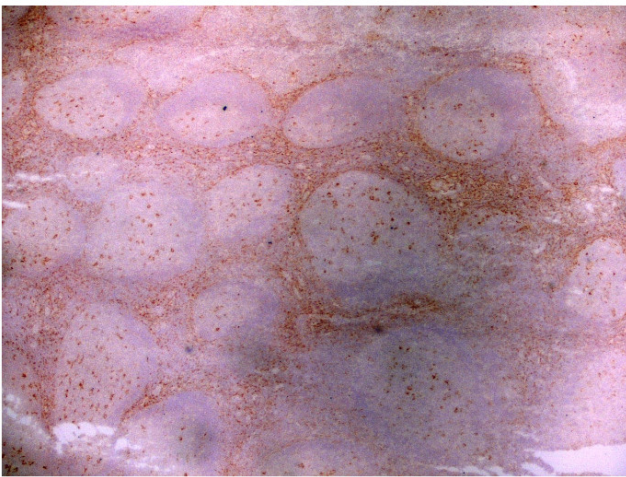


Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]) followed by the Histar detection system. High power

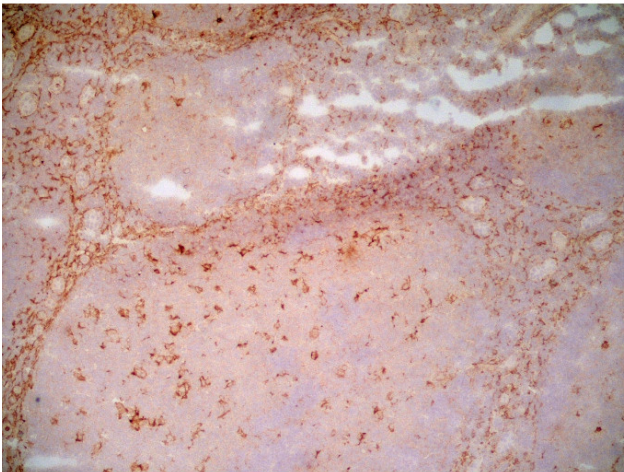




Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]) followed by the Histar detection system. Medium power.



Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]) followed by the Histar detection system. Low power.



Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 ([SM1729P]) followed by the Histar detection system. Medium power.