

CD91 Monoclonal Antibody (A2MR-a2), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A2MR-a2
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572571

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	1 Publication

Product Specific Information

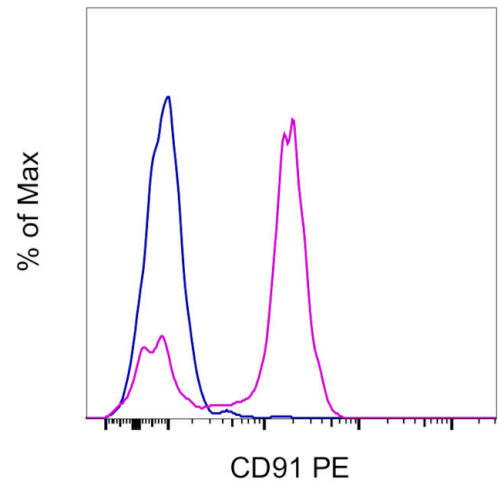
Description: The A2MR-a2 monoclonal antibody reacts with human CD91, also known as LRP-1 and alpha-2 macroglobulin receptor. CD91 is a 600 kDa, type 1 transmembrane protein consisting of an alpha and beta chain. The alpha chain interacts with multiple structurally and functionally diverse ligands and the beta chain contains 2 tyrosine phosphorylation motifs capable of interacting with adaptor and signaling proteins. Binding of ligands mediates ligand endocytosis and trafficking to lysosomes. This receptor is expressed by cells in the monocytic lineage, dendritic cells, hepatocytes, fibroblasts, adipocytes, neurons, and syncytiotrophoblast. CD91 is involved in cross-presenting antigens via MHC class I molecules on antigen presenting cells after endocytosis of heat shock protein-peptide complexes. It also plays a role in cell migration and is involved in activating signaling cascades.

Applications Reported: This A2MR-a2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This A2MR-a2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.



CD91 Antibody (12-0919-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, PE (Product # 12-4714-82) (blue histogram) or CD91 Monoclonal Antibody, PE (purple histogram). Cells in the monocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Stem cells international	Year 2023
Accelerated Wound Healing by Fibroblasts Differentiated from Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells in a Pressure Ulcer Animal Model.	
"Published figure using CD91 monoclonal antibody (Product # 12-0919-42) in Flow Cytometry"	
Authors: Yoon D,Yoon D,Sim H,Hwang I, Lee JS,Chun W	

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