

# CD91 Monoclonal Antibody (A2MR-a2), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A2MR-a2
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_2573698

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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

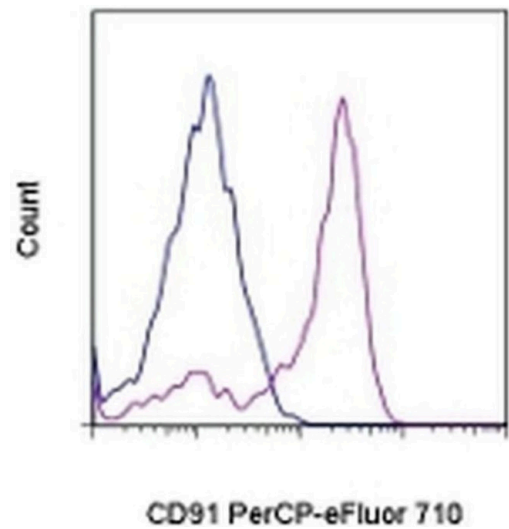
light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD91 Monoclonal Antibody (A2MR-a2), PerCP-eFluor™ 710, eBioscience™



**CD91 Antibody (46-0919-42) in Flow**  
Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (blue histogram) or Anti-Human CD91 PerCP-eFluor® 710 (purple histogram). Cells in the monocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Stem cells international	Year 2023
<b>Accelerated Wound Healing by Fibroblasts Differentiated from Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells in a Pressure Ulcer Animal Model.</b>	
"Published figure using CD91 monoclonal antibody (Product # 46-0919-42) in Flow Cytometry"	
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