

CD93 (AA4.1) Monoclonal Antibody (AA4.1), Biotin, eBioscience™

Product Details	
Size	100 µg
Species reactivity	Mouse
Published species	Mouse
Host / Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	AA4.1
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_466767

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	9 Publications
Functional Assay (Functional)	-	1 Publication
Miscellaneous Pubmed (Misc)	-	2 Publications

Product Specific Information

Description: The AA4.1 monoclonal antibody reacts with mouse C1qRp, an approximately 130-140 kDa C-type lectin-like type I transmembrane protein. The AA4.1 antigen was originally identified as an antigen expressed on early stages of B cell development in bone marrow. Adult spleen and fetal liver also have detectable numbers of AA4.1⁺ cells. In combination with other markers of hematopoietic progenitor cells such as Thy-1, Sca-1, c-Kit, CD43, and CD24, the bone marrow Lymphoid-Committed Progenitors (CLP) can be segregated into more primitive and more differentiated subsets based on expression of AA4.1. Correlated expression of surface IgM (sIgM), CD23, and AA4.1 antigen has also been used to define three nonproliferative subpopulations of immature/transitional peripheral B cells designated: T1 (AA4.1⁺/CD23⁻/sIgM^{hi}), T2 (AA4.1⁺/CD23⁺/sIgM^{hi}), and T3 (AA4.1⁺/CD23⁺/sIgM^{lo}). AA4.1 is also reported to be expressed in cytoplasmic vesicles in endothelial cells, megakaryoblasts, and platelets. It is reported that monoclonal antibodies AA4.1 and 493 recognize different epitopes of the same molecule.

Applications Reported: The AA4.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The AA4.1 antibody has been tested by flow cytometric analysis of mouse bone marrow and splenocyte cells. This can be used at less than or equal to 0.25 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Visit thermofisher.com to view references and figures.

Products are under warranty for one year from the date of shipment unless otherwise stated on this document or the product label.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.