

CD209b (SIGN-R1) Monoclonal Antibody (eBio22D1 (22D1)), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio22D1 (22D1)
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
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_2802324

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	-

Product Specific Information

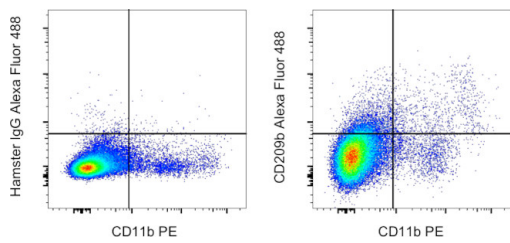
Description: The eBio22D1 monoclonal antibody reacts with mouse SIGNR1 (CD209b). SIGNR1 is a type II transmembrane C-type lectin that was identified in a search for mouse homologues of human DC-SIGN. It is expressed at high levels in splenic marginal zone macrophages and lymph node medullary macrophages, where it functions to uptake dextran polysaccharides, including the capsular polysaccharide of *Streptococcus pneumoniae*. It has also been demonstrated that SIGNR1 physically associates with TLR4/MD2, and it has been suggested that this association plays a role in recognition of LPS. Furthermore, recently it has been shown that SIGNR1 deficient mice have a defect in catabolism of the complement component C3, and that SIGNR1 binds directly to the complement C1 subcomponent, C1q to assemble a non-conventional C3 convertase. The eBio22D1 monoclonal antibody does not cross-react with the closely related SIGNR1, SIGNR2, SIGNR3 or SIGNR4.

Applications Reported: This eBio22D1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio22D1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 1.0 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.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser

Product Images For CD209b (SIGN-R1) Monoclonal Antibody (eBio22D1 (22D1)), Alexa Fluor™ 488, eBioscience™



CD209b (SIGN-R1) Antibody (53-2093-82) in Flow
C57BL/6 mouse splenocytes were stained with CD11b Monoclonal Antibody, PE (Product # 12-0112-82) and 1.0 µg of Armenian Hamster IgG Isotype Control, Alexa Fluor 488 (Product # 53-4888-80) (left) or 1.0 µg of CD209b Monoclonal Antibody, Alexa Fluor 488 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

1 Reference

Immunohistochemistry (1)

Wellcome open research	Year 2021
Hematological consequences of malaria in mice previously treated for visceral leishmaniasis.	
"Published figure using CD209b (SIGN-R1) monoclonal antibody (Product # 53-2093-82) in Immunohistochemistry"	
Authors: Rani GF,Ashwin H,Brown N,Hitchcock IS,Kaye PM	

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