

CD170 (Siglec F) Monoclonal Antibody (1RNM44N), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1RNM44N
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2664259

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	7 Publications

Product Specific Information

Description: This 1RNM44N monoclonal antibody recognizes mouse CD170, also known as Siglec F. Siglec F is a cell surface lectin belonging to the Ig superfamily that binds glycoconjugates containing sialic acids that are commonly found on various cell types. The cytoplasmic domain of Siglec F contains an immunoreceptor tyrosine-based inhibitory motif (ITIM) that initiates intracellular signaling upon ligand binding. Siglec F is expressed mostly on eosinophils and alveolar macrophages and lower levels of this receptor have also been reported on immature myelomonocytic cells. mouse Siglec F is a functional ortholog of human Siglec 8, however, unlike human Siglec 8, mouse Siglec F is not expressed on mast cells.

This 1RNM44N antibody will recognize a formaldehyde-fixed epitope.

Applications Reported: This 1RNM44N antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 1RNM44N antibody has been tested by flow cytometric analysis of thioglycolate-elicited peritoneal macrophages. This may be used at less than or equal to 0.125 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.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50

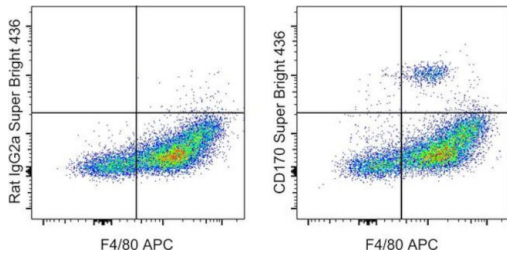
bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD170 (Siglec F) Monoclonal Antibody (1RNM44N), Super Bright™ 436, eBioscience™



CD170 (Siglec F) Antibody (62-1702-82) in Flow

Staining of BALB/c mouse thioglycolate-elicited peritoneal exudate cells with Anti-Mouse F4/80 APC (Product # 17-4801-82) and 0.06 µg of Rat IgG2a kappa Isotype Control Super Bright 436 (Product # 62-4321-82) (left) or 0.06 µg of Anti-Mouse CD170 (Siglec F) Super Bright 436 (right). Viable cells were used for analysis.

[View more figures on thermofisher.cn](https://www.thermofisher.cn)

9 References

Immunohistochemistry (2)

Molecular neurodegeneration

Amyloid-beta and tau pathologies act synergistically to induce novel disease stage-specific microglia subtypes.

"Published figure using CD170 (Siglec F) monoclonal antibody (Product # 62-1702-82) in Immunohistochemistry"

Authors: Kim DW, Tu KJ, Wei A, Lau AJ, Gonzalez-Gil A, Cao T, Braunstein K, Ling JP, Troncoso JC, Wong PC, Blackshaw S, Schnaar RL, Li T

Year
2022

MedComm

Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of *Pseudomonas aeruginosa*.

"Published figure using CD170 (Siglec F) monoclonal antibody (Product # 62-1702-82) in Immunohistochemistry"

Authors: Hu X, Wu M, Ma T, Zhang Y, Zou C, Wang R, Zhang Y, Ren Y, Li Q, Liu H, Li H, Wang T, Sun X, Yang Y, Tang M, Li X, Li J, Gao X, Li T, Zhou X

Year
2022

Flow Cytometry (7)

Nature immunology

Age-induced alterations of granulopoiesis generate atypical neutrophils that aggravate stroke pathology.

"62-1702-82 was used in Flow Cytometry to investigate the impact of age-related changes in the immune system on stroke."

Authors: Gullotta GS, De Feo D, Friebe E, Semerano A, Scotti GM, Bergamaschi A, Butti E, Brambilla E, Genchi A, Capotondo A, Gallizioli M, Coviello S, Piccoli M, Vigo T, Della Valle P, Ronchi P, Comi G, D'Angelo A, Maugeri N, Roveri L, Uccelli A, Becher B, Martino G, Bacigalupi M

Year
2023

Species
Mouse

Dilution
1:200

Advanced science (Weinheim, Baden-Wurtemberg, Germany)

Group 2 Innate Lymphoid Cells Protect Mice from Abdominal Aortic Aneurysm Formation via IL5 and Eosinophils.

"Published figure using CD170 (Siglec F) monoclonal antibody (Product # 62-1702-82) in Flow Cytometry"

Authors: Zhang Y, Liu T, Deng Z, Fang W, Zhang X, Zhang S, Wang M, Luo S, Meng Z, Liu J, Sukhova GK, Li D, McKenzie ANJ, Libby P, Shi GP, Guo J

Year
2023

[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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