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

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	1RNM44N
Conjugate	Unconjugated
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
RRID	AB_2572866

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	20 µg/mL	-
Immunocytochemistry (ICC/IF)	20 µg/mL	-
Flow Cytometry (Flow)	0.06 µg/test	11 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, and immunohistochemical staining of frozen tissue sections.

Applications Tested: This 1RNM44N antibody has been tested by immunohistochemistry of frozen mouse tissue and can be used at less than or equal to 20 µg/mL. This 1RNM44N antibody has been tested by flow cytometric analysis of mouse thioglycolate-elicited peritoneal exudate cells and can be used at less than or equal to 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

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Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 μm post-manufacturing filtered.

Product Images For CD170 (Siglec F) Monoclonal Antibody (1RNM44N), eBioscience™
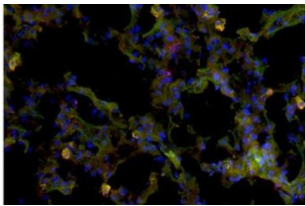
CD170 (Siglec F) Antibody (14-1702-82) in IHC (F)
Immunohistochemistry of frozen mouse lung stained with 20 μg/mL of Anti-Mouse CD170 (Siglec F) Purified followed by 10 μg/mL of Anti-Rat IgG TRITC (red), 10 μg/mL of Anti-Mouse CD11c Alexa Fluor® 488 (green), colocalization appears yellow. Nuclei are stained with DAPI (blue).

View more figures on thermofisher.cn

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Immunohistochemistry (3)

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 # 14-1702-82) 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

Species
Mouse

Dilution
1:300

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 # 14-1702-82) 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 (11)

Advanced science (Weinheim, Baden-Wurttemberg, 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 # 14-1702-82) 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

Methods in molecular biology (Clifton, N.J.)

Flow Cytometry and Mass Cytometry for Measuring the Immune Cell Infiltrate in Atherosclerotic Arteries.

"14-1702-82 was used in Flow cytometry/Cell sorting to describe the methodology used to isolate single immune cells from mouse aortas, followed by protocols for flow cytometry and mass cytometry for aortic immune cell characterization."

Authors: Orecchioni M,Meyer MA,Hedrick CC,Ley K

Year
2022

Species
Mouse

More applications with references on thermofisher.cn

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