

CD170 (Siglec F) Monoclonal Antibody (1RNM44N), Brilliant Violet™ 711, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Brilliant Violet™ 711, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1RNM44N
Conjugate	Brilliant Violet™ 711
Excitation/Emission Max	406/711 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_2925577

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

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 mouse thioglycolate-elicited peritoneal exudate cells. 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.

Brilliant Violet™ 711 (BV711) is a tandem dye that emits at 713 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a

staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

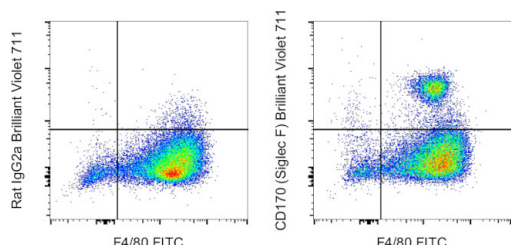
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 711 (BV711) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 713 nm; Laser: Violet Laser.

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Product Images For CD170 (Siglec F) Monoclonal Antibody (1RNM44N), Brilliant Violet™ 711, eBioscience™



CD170 (Siglec F) Antibody (407-1702-80) in Flow

BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stained with F4/80 Monoclonal Antibody, FITC (Product # 11-4801-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, Brilliant Violet 711 (Product # 407-4321-81) (left) or 0.5 µg of CD170 (Siglec F) Monoclonal Antibody, Brilliant Violet 711 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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