

**Brilliant Violet 421™ anti-mouse CD170 (Siglec-F)**

**Catalog # / Size:** 1377545 / 50 µg

**Clone:** S17007L

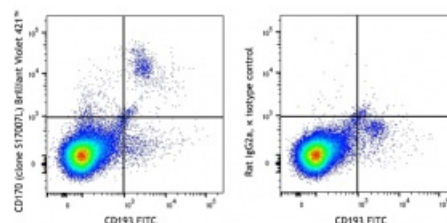
**Isotype:** Rat IgG2a, κ

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD193 (CCR3, clone J073E5) FITC and CD170 (Siglec-F) (clone S17007L) Brilliant Violet 421™ (left) or rat IgG2a, κ Brilliant Violet 421™ isotype control (right).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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**Description:** CD170, also known as Siglec-F, Siglec-5, is a member of the Sialic acid-binding Ig-like lectin family, type I single pass transmembrane protein, with 4 extracellular Ig-like domains and 2 ITIM motifs in the cytoplasmic domain; preferentially binds [alpha]-2,3-linked sialic acid. Siglec F is expressed in eosinophils, alveolar macrophages and intestinal microfold (M) cells and induces apoptosis of the lung eosinophils during allergic asthma.

**Antigen**  
**References:**

1. Gicheva N, et al. 2016. *Biochem. Biophys. Res. Commun.* 479:1.
2. Kiwamoto T, et al. 2015. *J. Allergy Clin. Immunol.* 135:1329.
3. Suzukawa M, et al. 2013. *J. Immunol.* 190:5939.
4. Patnode ML, et al. 2013. *J. Biol. Chem.* 288:26533.