SONY

Product Data Sheet

Biotin anti-mouse CD170 (Siglec-F)

Catalog # / Size: 1377560 / 100 µg

Clone: S17007L

Isotype: Rat IgG2a, κ

Immunogen: Mouse PD-L1 transfectant

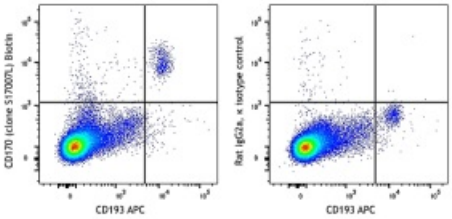
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: V B-CD73.3

Concentration: 0.5

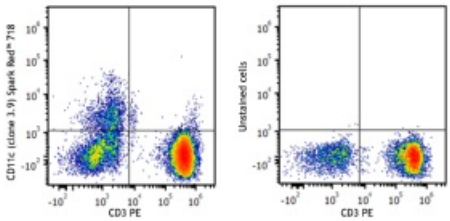


C57BL/6 mouse splenocytes were stained with CD193 (CCR3, clone J073E5) APC and biotinylated Siglec-F (clone S17007L, left) or biotinylated rat IgG2a, κ isotype control (right), followed by SAV- PE

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



Human peripheral blood lymphocytes were stained with anti-human CD3 PE and anti-human CD11c (clone 3.9) Spark Red™ 387 (left) or stained with anti-human CD3 PE only (right).

Application Notes: The antibody MIH7 does not block other CD274 antibodies: clone MIH6 and 10F.9G2.

Additional reported applications (for the relevant formats) include: Blocking (Block)

Application 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.

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 eosinophis during allergic asthma.

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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.

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