SONY

Product Data Sheet

FITC anti-human CD193 (CCR3)

Catalog # / Size: 2153595 / 25 tests
2153600 / 100 tests

Clone: 500000000

Isotype: Mouse IgG2b, κ

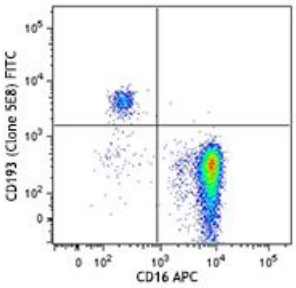
Reactivity: Human

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

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

Workshop Number: VI C-7

Concentration: Lot-specific

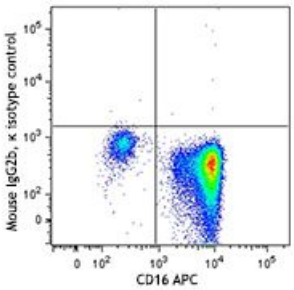


Human peripheral blood leukocytes were stained with CD16 APC and CD193 (clone 5E8) FITC (top) or mouse IgG2b, κFITC isotype control (bottom). Data shown was generated from granulocyte population gating.

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: Additional reported applications (for the relevant formats) include: The 5E8 antibody is useful for immunofluorescent staining and flow cytometric analysis of CCR3 expression.

It has been observed that the 5E8 antibody clone can interact with PE/Cy7 antibody conjugates during multi-color staining, potentially leading to unwanted staining. This interaction can be resolved by sequentially staining with the 5E8 antibody first and then followed by the PE/Cy7 conjugate of interest.

Application References:

1. Beauvillian C, *et al.* 2011. *Blood* 117:1196. PubMed

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Description: CD193, also known as CC-chemokine receptor 3 (CCR3), CC CKR3, MIP1-alpha receptor like-2, and eotaxin receptor, is a member of the G protein-coupled seven transmembrane receptors family. It binds to the CC chemokines eotaxin, eotaxin-2, and eotaxin-3 with high affinity. CCR3 has also been reported to bind RANTES, MCP-3, and MCP-4 with low affinity. CCR3 receptor is expressed on human eosinophils, basophils, mast cells, mononuclear phagocytes, platelets, $CD34^+$ hematopoietic progenitor cells, Th2-like lymphocytes, and keratinocytes. CCR3 is thought to play a role in allergic diseases such as bronchial asthma and allergic rhinitis. CCR3 is a co-receptor for HIV-1 and HIV-2, and the binding of eotaxin with CCR3 has been shown to inhibit HIV infection in some cell types.

Antigen References:

1. Gerard W, *et al.* 1996. *J. Exp. Med.* 183:2437.
2. Uguccioni C, *et al.* 1997. *J. Clin. Invest.* 100:1137.
3. Sallusto F, *et al.* 1997. *Science.* 277:2005.
4. Loetscher P, *et al.* 2001. *J. Biol. Chem.* 276:2986.

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