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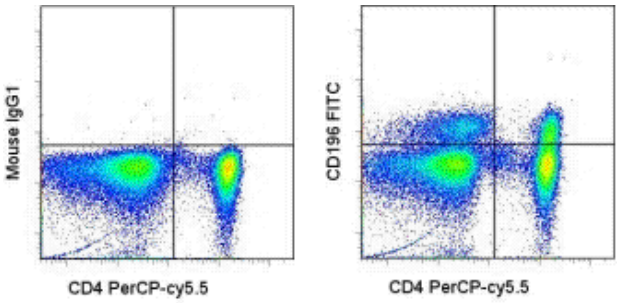
# Anti-Human CD196 (CCR6) FITC

Catalog Number: 11-1969
Also Known As:
RUO: For Research Use Only. Not for use in diagnostic procedures.




Staining of normal human peripheral blood cells with Anti-Human CD4 PerCP-Cy5.5 (cat. 45-0048) and 0.5 ug Mouse IgG1 kappa Isotpe Control FITC (left) or Anti-Human CD196 (CCR6) FITC (right). Total viable cells were used for analysis.

## Product Information

Contents: Anti-Human CD196 (CCR6) FITC
REF Catalog Number: 11-1969
Clone: R6H1
Concentration: 5 uL (0.5 ug)/test
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

## Description

This R6H1 monoclonal antibody reacts with CD196 (also known as CCR6), a seven transmembrane G protein-coupled receptor expressed on T, B, dendritic, natural killer, and Langerhans cells. This CC chemokine receptor uniquely binds MIP-3a/CCL20, a chemoattractant for dendritic cells, effector/memory T cells, and B cells. CD196 is also involved in host defense and inflammation at epithelial sites. Furthermore, this receptor has been implicated in Th17 differentiation and CD4+FoxP3+ regulatory T cell development.

## Applications Reported

This R6H1 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

This R6H1 antibody has been pre-titrated and tested by flow cytometric analysis on normal human peripheral blood cells. This can be used at 5 µl (0.5 µg)/per test. A test is defined as the amount (µg)/test 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.

## References

Liu H, Rohowsky-Kochan C.Regulation of IL-17 in human CCR6+ effector memory T cells. J Immunol. 2008 Jun 15;180(12):7948-57

Singh SP, Zhang HH, Foley JF, Hedrick MN, Farber JM.Human T cells that are able to produce IL-17 express the chemokine receptor CCR6. J Immunol. 2008 Jan 1;180(1):214-21

Lim HW, Lee J, Hillsamer P, Kim CH.Human Th17 cells share major trafficking receptors with both polarized effector T cells and FOXP3+ regulatory T cells. J Immunol. 2008 Jan 1;180(1):122-9

Shutyser E, Struyf S, Van Damme J.The CC chemokine CCL20 and its receptor CCR6. Cytokine Growth Factor Rev. 2003 Oct;14(5):409-26.

Carramolino L, Kremer L, Goya I, Varona R, Buesa JM, Gutiérrez J, Zaballos A, Martínez-A C, Márquez G. Down-regulation of the beta-chemokine receptor CCR6 in dendritic cells mediated by TNF-alpha and IL-4. J Leukoc Biol. 1999 Nov;66(5):837-44. (clone R6H1, FC, Pubmed)

## Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)
45-0048 Anti-Human CD4 PerCP-Cy5.5 (OKT4 (OKT-4))

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