

PE/Dazzle™ 594 anti-human CD196 (CCR6)

Catalog # / Size: 2367150 / 100 tests
2367145 / 25 tests

Clone: G034E3

Isotype: Mouse IgG2b, κ

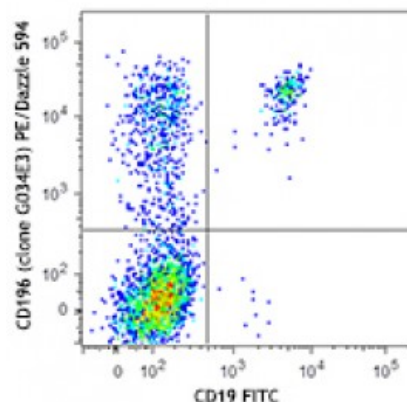
Immunogen: CCR6-transfected cells

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



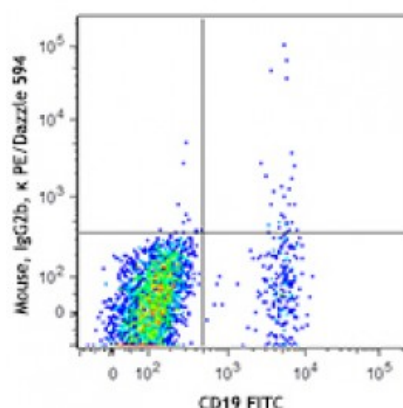
Human peripheral blood lymphocytes were stained with CD19 FITC and CD196 (clone G034E3) PE/Dazzle™ 594 (top image) or mouse IgG2b, κ PE/Dazzle™ 594 isotype control (bottom image).

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

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



Description: CCR6, also known as CD196, is a chemokine receptor that is expressed on immature dendritic cells, B lymphocytes, and memory T cells. CCR6 binds CCL20, although members of the β defensin family also bind CCR6 with a lower affinity. CCR6 positive cells, and its ligand CCL20, have been detected in numerous organs, especially the secondary lymphoid organ. CCL20 is selectively made by the follicle-associated epithelium (FAE) overlying Peyer's Patches (PPs) and isolated lymphoid follicles (ILFs). CCL20 contributes to the recruitment of CCR6-expressing B cells to these structures. In humans, CCR6 can function to mediate arrest of T cells on dermal endothelial cells and is highly expressed on T cells resident in both normal and psoriatic skin. CCR6 and/or CCL20 have been implicated in the pathogenesis of rheumatoid arthritis and inflammatory bowel disease. Human T cells that are able to produce IL-17 express CCR6. It suggests that CCL20 and CCR6 have a role in inflammatory diseases by recruiting Th17

cells to target tissues.

**Antigen
References:**

1. Zaballos A, *et al.* 1996. *Biochem. Bioph. Res. Co.* 227:846.
2. Yang D, *et al.* 1999. *Science* 286:525.
3. MacDonald KG, *et al.* 2007. *Am. J. Pathol.* 170:1229.
4. Homey B, *et al.* 2000