

**Alexa Fluor® 647 anti-human CD196 (CCR6)**

**Catalog # / Size:** 2367015 / 25 tests  
2367020 / 100 tests

**Clone:** G034E3

**Isotype:** Mouse IgG2b, κ

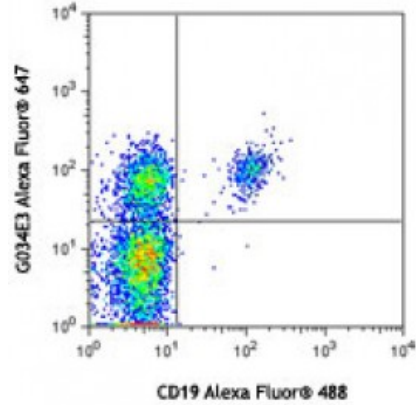
**Immunogen:** CCR6-transfected cells

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

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

**Concentration:** Lot-specific

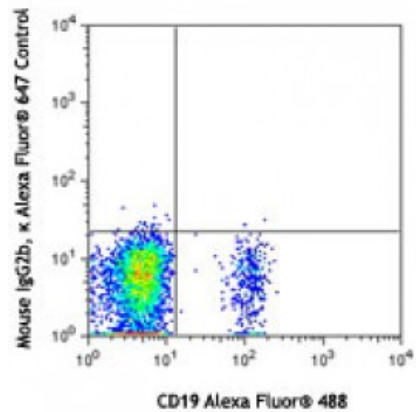


Human peripheral lymphocytes were stained with CD19 Alexa Fluor® 488 and CCR6 (clone G034E3) Alexa Fluor® 647 ( top) or mouse IgG2b, κ Alexa Fluor® 647 isotype control (bottom).

**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.



\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 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