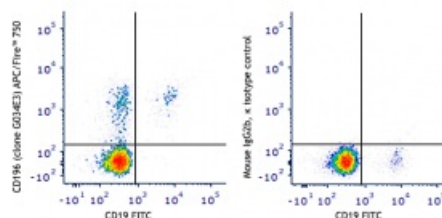


APC/Fire™ 750 anti-human CD196 (CCR6)

Catalog # /	2367215 / 100 tests
Size:	2367210 / 25 tests
Clone:	G034E3
Isotype:	Mouse IgG2b, κ
Immunogen:	CCR6-transfected cells
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD19 FITC and CD196 (clone G034E3) APC/Fire™ 750 (left) or Mouse IgG2b, κ isotype control APC/Fire™ 750 (right).

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 in 100 µL staining volume or 5 µL per 100 µL of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting¹, immunofluorescence², and immunoprecipitation¹.

Application References:

1. Hildreth JE, *et al.* 1991. *Blood* 77:121. (IP, WB)
2. Beatty WL, *et al.* 2006. *J. Cell Sci.* 119:350. (IF)

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. *J. Immunol.* 164:6621.
5. Hirota K, et al. 2007. *J. Exp. Med.* 204:2803.
6. Singh SP, et al. 2008. *J. Immunol.* 180:214.