

Spark PLUS B550™ anti-human CD196 (CCR6) Recombinant Antibody

Catalog# / Size	399011 / 25 tests
Clone	QA17A37
Regulatory Status	RUO
Other Names	BN-1, CKR6, DCR2, CKRL3, DRY-6, GPR29, CKR-L3, CMKBR6, GPRCY4, STRL22, GPR-CY4
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS B550™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	This recombinant antibody clone is derived from clone G034E3.

Antigen Details

Structure	Chemokine receptor, GPCR, seven transmembrane receptor
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Distribution	Immature dendritic cells, B lymphocytes, memory T cells, Th17 cells
Function	Host defense, important for recruitment of B cells to secondary lymphoid organs, mediates arrest of T cells on dermal endothelial cells
Ligand/Receptor	CCL20 (MIP-3α)
Molecular Family	Cytokine/Chemokine Receptors
Antigen References	1. Zaballos A, <i>et al.</i> 1996. <i>Biochem. Bioph. Res. Co.</i> 227:846. 2. Yang D, <i>et al.</i> 1999. <i>Science</i> 286:525. 3. MacDonald KG, <i>et al.</i> 2007. <i>Am. J. Pathol.</i> 170:1229. 4. Homey B, <i>et al.</i> 2000. <i>J. Immunol.</i> 164:6621. 5. Hirota K, <i>et al.</i> 2007. <i>J. Exp. Med.</i> 204:2803. 6. Singh SP, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:214.
Gene ID	1235

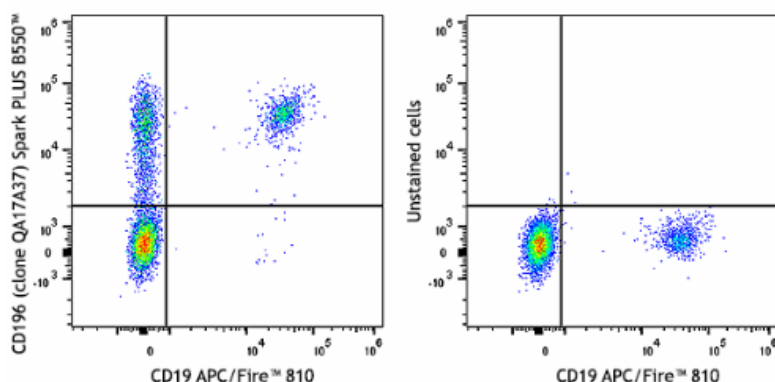
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

KIRAVIA Blue 520™ anti-human CD196 (CCR6) Recombinant Antibody, Purified anti-human CD196 (CCR6) Recombinant Antibody, PE/Cyanine5 anti-human CD196 (CCR6) Recombinant Antibody, APC anti-human CD196 (CCR6) Recombinant Antibody, PE anti-human CD196 (CCR6) Recombinant Antibody, Spark PLUS B550™ anti-human CD196 (CCR6) Recombinant Antibody

Product Data



Human peripheral blood cells were stained with anti-human CD19 (clone HIB19) APC/Fire™ 810 and anti-human CD196 (CCR6) recombinant (clone QA17A37) Spark PLUS B550™ (left) or stained with anti-human CD19 (clone HIB19) APC/Fire™ 810 only (right). Data was gated on the lymphocyte population.

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