

Spark PLUS UV395™ anti-human CD196 (CCR6) Antibody

Catalog# / Size	353467 / 25 tests 353468 / 100 tests
Clone	G034E3
Regulatory Status	RUO
Other Names	BN-1, CKR6, DCR2, CKRL3, DRY-6, GPR29, CKR-L3, CMKBR6, GPRCY4, STRL22, GPR-CY4
Isotype	Mouse IgG2b, κ
Description	<p>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.</p>

Product Details

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	CCR6-transfected cells
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 UV395™ 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	<p>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. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.</p>
Excitation Laser	Ultraviolet Laser (355 nm)
RRID	AB_3683375 (BioLegend Cat. No. 353467) AB_3683375 (BioLegend Cat. No. 353468)

Antigen Details

Structure	Chemokine receptor, GPCR, seven transmembrane receptor
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-3 α)
Cell Type	B cells, Dendritic cells, T cells, Th17
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	<ol style="list-style-type: none"> 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

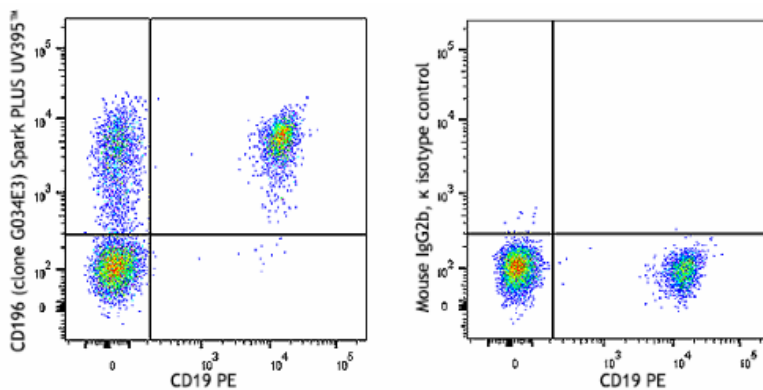
Related Protocols

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

Other Formats

Purified anti-human CD196 (CCR6), Alexa Fluor® 647 anti-human CD196 (CCR6), Brilliant Violet 421™ anti-human CD196 (CCR6), PerCP/Cyanine5.5 anti-human CD196 (CCR6), PE anti-human CD196 (CCR6), FITC anti-human CD196 (CCR6), Alexa Fluor® 488 anti-human CD196 (CCR6), APC anti-human CD196 (CCR6), PE/Cyanine7 anti-human CD196 (CCR6), Brilliant Violet 605™ anti-human CD196 (CCR6), Brilliant Violet 785™ anti-human CD196 (CCR6), Brilliant Violet 510™ anti-human CD196 (CCR6), Brilliant Violet 650™ anti-human CD196 (CCR6), Purified anti-human CD196 (CCR6) (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD196 (CCR6), APC/Cyanine7 anti-human CD196 (CCR6), Alexa Fluor® 700 anti-human CD196 (CCR6), Brilliant Violet 711™ anti-human CD196 (CCR6), TotalSeq™-A0143 anti-human CD196 (CCR6), Pacific Blue™ anti-human CD196 (CCR6), TotalSeq™-C0143 anti-human CD196 (CCR6), APC/Fire™ 750 anti-human CD196 (CCR6), TotalSeq™-B0143 anti-human CD196 (CCR6), TotalSeq™-D0143 anti-human CD196 (CCR6), PE/Fire™ 640 anti-human CD196 (CCR6), APC/Fire™ 810 anti-human CD196 (CCR6), Spark NIR™ 685 anti-human CD196 (CCR6), PE/Fire™ 700 anti-human CD196 (CCR6), PE/Cyanine5 anti-human CD196 (CCR6), Biotin anti-human CD196 (CCR6), PE/Fire™ 810 anti-human CD196 (CCR6), PE/Fire™ 744 anti-human CD196 (CCR6), PerCP/Fire™ 780 anti-human CD196 (CCR6) Antibody, Spark PLUS UV395™ anti-human CD196 (CCR6), PerCP/Fire™ 806 anti-human CD196 (CCR6)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) PE and anti-human CD196 (CCR6) (clone G034E3) Spark PLUS UV395™ (left) or mouse IgG2b, κ Spark PLUS UV395™ isotype control (right).

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