

PE/Cyanine7 anti-mouse CD196 (CCR6) Antibody

Catalog# / Size	129815 / 25 µg 129816 / 100 µg
Clone	29-2L17
Regulatory Status	RUO
Other Names	CD196, BN-1, CKR-L3, DRY6, KY411, STRL22
Isotype	Armenian Hamster IgG
Description	CCR6 is a G-protein linked chemokine receptor which binds the chemokine CCL20/MIP-3a. It is expressed on B lymphocytes and certain subsets of dendritic cells and T cells. CCR6 is reported to be involved in mucosal immune response and lymphocyte migration and homeostasis.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	N-terminal peptide (aa. 2-38) of mouse CCR6 fused with GST
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	0.2 mg/ml
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 ≤ 1.0 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Product Citations	<ol style="list-style-type: none">1. Komuczki J, <i>et al.</i> 2019. <i>Immunity</i>. 50:1289. PubMed2. Boccasavia VL, <i>et al.</i> 2021. <i>Cell Reports</i>. 34(11):108861. PubMed3. Withers D, <i>et al.</i> 2016. <i>Nat Med</i>. 22:319-23. PubMed4. Wong R, <i>et al.</i> 2020. <i>Immunity</i>. 53(5):1078-1094.e7. PubMed5. Emgård J, <i>et al.</i> 2018. <i>Immunity</i>. 143:419. PubMed6. Marks KE, <i>et al.</i> 2021. <i>Cell Reports</i>. 35(13):109303. PubMed7. Zanvit P, <i>et al.</i> 2015. <i>Nat Commun</i>. 6: 8424. PubMed8. Suan D <i>et al.</i> 2017. <i>Immunity</i>. 47(6):1142-1153. PubMed9. Sakamoto K, <i>et al.</i> 2021. <i>Immunity</i>. 54:2321. PubMed10. Nikolouli E, <i>et al.</i> 2020. <i>Cell Mol Immunol</i>. PubMed11. Sakamoto K, <i>et al.</i> 2022. <i>STAR Protoc</i>. 3:101052. PubMed
RRID	AB_1877244 (BioLegend Cat. No. 129815) AB_2072798 (BioLegend Cat. No. 129816)

Antigen Details

Structure	G-protein linked, seven transmembrane, domain-spanning chemokine receptor; 367 amino acids long and about 75% homology with human CCR6
Distribution	Expressed on spleen B cells, immature splenic dendritic cells in Peyer's patches, and some T cell subset
Function	Important in regulating mucosal immune response
Ligand/Receptor	CCL20/MIP-3a
Cell Type	B cells, Dendritic cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	1. Rossi D, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:1033. 2. Lukacs N, <i>et al.</i> 2001. <i>J. Exp. Med.</i> 194:551. 3. Cook DN, <i>et al.</i> 2000. <i>Immunity</i> 12:495
Gene ID	12458

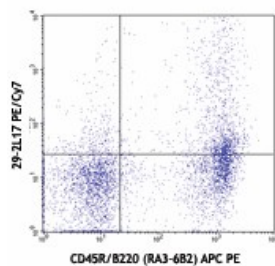
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

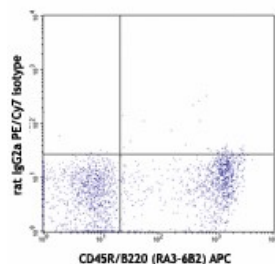
Other Formats

Purified anti-mouse CD196 (CCR6), PE anti-mouse CD196 (CCR6), Alexa Fluor® 647 anti-mouse CD196 (CCR6), PerCP/Cyanine5.5 anti-mouse CD196 (CCR6), APC anti-mouse CD196 (CCR6), PE/Cyanine7 anti-mouse CD196 (CCR6), Brilliant Violet 421™ anti-mouse CD196 (CCR6), Brilliant Violet 605™ anti-mouse CD196 (CCR6), PE/Dazzle™ 594 anti-mouse CD196 (CCR6), Brilliant Violet 785™ anti-mouse CD196 (CCR6), TotalSeq™-A0225 anti-mouse CD196 (CCR6), TotalSeq™-B0225 anti-mouse CD196 (CCR6), TotalSeq™-C0225 anti-mouse CD196 (CCR6), PE/Fire™ 640 anti-mouse CD196 (CCR6)

Product Data



C57BL/6 mouse splenocytes stained with rat IgG2a PE/Cyanine7 isotype and CD45R/B220 (RA3-6B2) APC



C57BL/6 mouse splenocytes stained with rat IgG2a PE/Cyanine7 isotype and CD45R/B220 (RA3-6B2) APC

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