BioLegend®
Enabling Legendary Discovery™

Version: 2 Revision Date: 07/22/2022

Purified anti-human CD197 (CCR7) (Maxpar® Ready) Antibody

Catalog# / Size	353237 / 100 µg
Clone	G043H7
Regulatory Status	RUO
Other Names	BLR2, CDw197, EBI1, CMKBR7
Isotype	Mouse IgG2a, κ
Description	CCR7, also known as CD197, is a chemokine receptor that binds CCL19 and CCL21. CCR7 and its ligands link innate and adaptive immunity by affecting interactions between T cells and dendritic cells and their downstream effect. Naïve T cells enter the lymph node through high endothelial venules, which express CCL21. Dendritic cells and macrophages enter the lymph node through afferent lymphatics. The encounter of T cells and dendritic cells in the T cell zone is CCR7-dependent. In addition, during immunological surveillance, B cells recirculate between B-cell-rich compartments (follicles or B cell zones) in secondary lymphoid organs, surveying for antigen. After antigen binding, B cells move to the boundary of B and T zones to interact with T-helper cells; this B cell migration is directed by CCR7 and its ligands. CCR7-positive cancer cell expression has been associated with lymph node metastasis.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	CCR7-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF® - Verified
Recommended Usage	This product is suitable for use with the Maxpar® Metal Labeling Kits. For metal labeling using Maxpar® Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar® Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar® User Guide when conjugating Maxpar® Ready antibodies.
Additional Product Notes	Maxpar® is a registered trademark of Standard BioTools Inc.
Product Citations	1. Gide TN, *et al.* 2019. Cancer Cell. 35:238. PubMed 2. Roussel M, *et al.* 2021. Cell Reports Medicine. 2(6):100291. PubMed 3. Jordan S, *et al.* 2020. Cell. 178(5):1102-1114.e17.. PubMed 4. Wimmers F, *et al.* 2021. Cell. 184:3915. PubMed
RRID	AB_2563726 (BioLegend Cat. No. 353237)

Antigen Details

Structure	Chemokine receptor, G protein-coupled receptors (GPCR), seven transmembrane receptor.

Distribution T cells, B cells, NK, dendritic cells.

Function The chemokine receptor CCR7 plays a pivotal role in the homing of naïve T cells and regulatory T cells to secondary lymphoid organs, and the migration of dendritic cells into afferent lymphatic vessels.

Ligand/Receptor CCL19 and CCL21.

Cell Type B cells, Dendritic cells, NK cells, T cells

Biology Area Immunology

Molecular Family CD Molecules, Cytokine/Chemokine Receptors, GPCR

Antigen References

1. Yanagihara S, *et al.* 1998. *J. Immunol.* 161:3096.
2. Charo IF, *et al.* 2006. *N. Engl. J. Med.* 354:610.
3. Reif K, *et al.* 2002. *Nature* 416:94.
4. Nakata B, *et al.* 2008. *Oncology* 74:69.
5. Brodie T. *et al.* 2013. *Cytometry A.* 6: 530-2. PubMed
6. Graves A.J. et al. 2014. Cytometry A. 7: 576–9 PubMed
7. Moncunill G. et al. 2014. Cytometry A. 12: 995-8 PubMed

Gene ID 1236

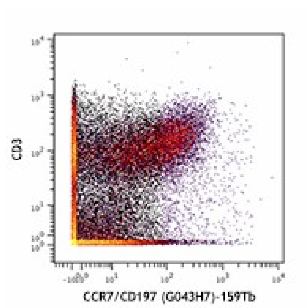
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD197 (CCR7), Alexa Fluor® 488 anti-human CD197 (CCR7), Brilliant Violet 421™ anti-human CD197 (CCR7), PE anti-human CD197 (CCR7), APC/Cyanine7 anti-human CD197 (CCR7), Pacific Blue™ anti-human CD197 (CCR7), APC anti-human CD197 (CCR7), FITC anti-human CD197 (CCR7), Alexa Fluor® 647 anti-human CD197 (CCR7), PerCP/Cyanine5.5 anti-human CD197 (CCR7), Brilliant Violet 605™ anti-human CD197 (CCR7), PE/Cyanine7 anti-human CD197 (CCR7), Brilliant Violet 711™ anti-human CD197 (CCR7), Brilliant Violet 785™ anti-human CD197 (CCR7), Brilliant Violet 510™ anti-human CD197 (CCR7), Brilliant Violet 650™ anti-human CD197 (CCR7), PE/Dazzle™ 594 anti-human CD197 (CCR7), Biotin anti-human CD197 (CCR7), Purified anti-human CD197 (CCR7) (Maxpar® Ready), PerCP anti-human CD197 (CCR7), Alexa Fluor® 700 anti-human CD197 (CCR7), APC/Fire™ 750 anti-human CD197 (CCR7), TotalSeq™-A0148 anti-human CD197 (CCR7), TotalSeq™-B0148 anti-human CD197 (CCR7), TotalSeq™-C0148 anti-human CD197 (CCR7), Brilliant Violet 750™ anti-human CD197 (CCR7), Ultra-LEAF™ Purified anti-human CD197 (CCR7), Spark NIR™ 685 anti-human CD197 (CCR7), KIRAVIA Blue 520™ anti-human CD197 (CCR7), PE/Fire™ 640 anti-human CD197 (CCR7), Spark YG™ 581 anti-human CD197 (CCR7), APC/Fire™ 810 anti-human CD197 (CCR7) Antibody, TotalSeq™-D0148 anti-human CD197 (CCR7), PE/Fire™ 810 anti-human CD197 (CCR7) Antibody, PE/Cyanine5 anti-human CD197 (CCR7)

Product Data



Human PBMCs stained with 170Er-anti-CD3 (UCHT1) and 159Tb-anti-CD197 (G043H7). Lymphocytes are displayed in the analysis. Data provided by DVS Sciences.

therapeutic or commercial use.

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