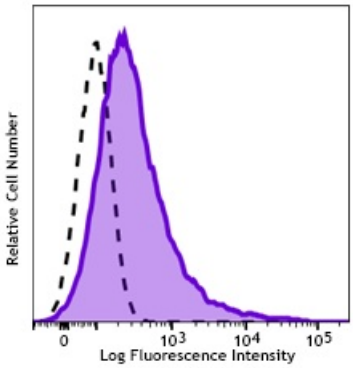
SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human/mouse CXCR7

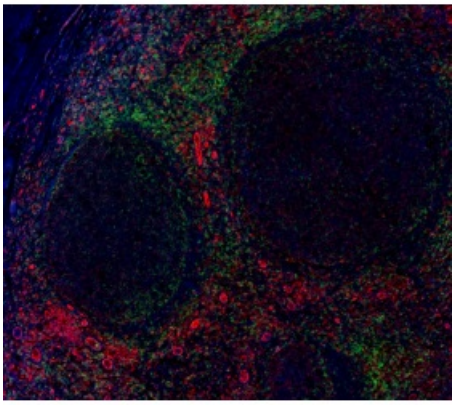
Catalog # / Size:	2255590 / 100 tests 2255585 / 25 tests
Clone:	8F11-M16
Isotype:	Mouse IgG2b, κ
Immunogen:	Human CXCR7 transfectant
Reactivity:	Human, Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	V S075
Concentration:	Lot-specific



hCXCR7 transfected L5178Y cells were stained with CXCR7 (clone 8F11-M16) (filled histogram) PE/Dazzle™ 594 (filled histogram) or mouse IgG2b, κ PE/Dazzle™594 isotype control (open histogram).

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. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: Intracellular staining for flow cytometry.[2]



Application References:

1. Soehnlein O, *et al.* 2013. *EMBO Mol. Med.* 5:471. (FC) PubMed
2. Saad ST, *et al.* 2014. *PLoS One* 9(1). (ICFC) PubMed
3. Balabanian K, *et al.* 2012. *J. Transl. Med.* 10:251. (FC) PubMed

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Description: CXCR7, also known as RDC1, belongs to a subgroup of C-X-C chemokine receptors, which are part of a large protein family of G protein-coupled receptors (GPCR). CXCR7 binds with high-affinity to CXCL12/SDF-1 and CXCL11/I-TAC, which regulates the trafficking and activation of leukocytes. It is also a co-receptor for the entry of HIV-1. Binding of ligand to CXCR7 induces proliferation and migration of immature neurons, glia and their precursors. CXCR7 expression occurs on a wide variety of tissues and cells including monocytes, B cells, T cells and mature dendritic cells. Surface expression of CXCR7 was also reported to be on tumor cells, activated endothelial cells, fetal liver cells, and other cell types.

Antigen References:

1. Burns JM, *et al.* 2006. *J. Exp. Med.* 203:2201.
2. Infantino S, *et al.* 2006. *J. Immunol.* 176:2197.

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