SONY

Product Data Sheet

Spark NIR™ 685 anti-mouse CD198 (CCR8)

Catalog # / Size: 1351620 / 100 µg
1351615 / 25 µg

Clone: SA214G2

Isotype: Rat IgG2b, κ

Immunogen: Mouse CD198 (CCR8)-transfected cells

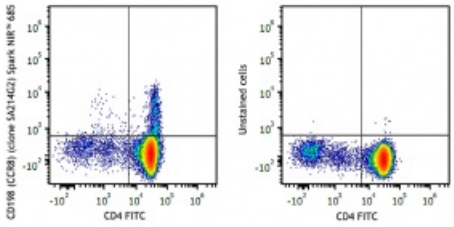
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Workshop Number: 750 under optimal conditions.

Concentration: 0.5 mg/mL



C57BL/6 mouse thymocytes were stained with anti-mouse CD4 FITC and anti-mouse CD198 (CCR8) (clone SA214G2) Spark NIR™ 685 (left) or CD4 FITC only (right).

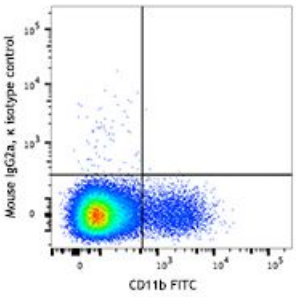
Applications:

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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.

Application Notes: Additional reported applications (for the relevant formats of this clone) include: blocking of Fc?RIV function[1] and inhibition of immune complex binding[1,2].



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application References:

1. Mancardi DA, *et al.* 2008. *J. Clin. Invest* 118:3738. (FC, Block)
2. Nimmerjahn F, *et al.* 2005. *Immunity* 23:41.

Description: C-C chemokine receptor type 8 (CCR8) CD198, is a 41 kD G-protein coupled receptor with 7 transmembrane regions. CCR8 is expressed by a subset of thymocytes, Tregs, NKT and Th2-polarized cells, a subset of macrophages, monocytes, and monocyte-derived dendritic cells. CCR8 mediates chemotaxis toward its ligand CCL1, and is involved in apoptosis of thymocytes.

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Antigen References:

1. Coghill JM, *et al.* 2013. *Blood.* 122:825.
2. Islam SA, *et al.* 2011. *Nat Immunol.* 12:167.
3. Hoshino A, *et al.* 2007. *J Immunol.* 178:5296.
4. Qu C, *et al.* 2004. *J Exp Med.* 200:1231.