SONY

Product Data Sheet

Alexa Fluor® 700 anti-mouse CD21/CD35 (CR2/CR1)

Catalog # / Size: 1217155 / 25 µg
1217160 / 100 µg

Clone: 7E9

Isotype: Rat IgG2a, κ

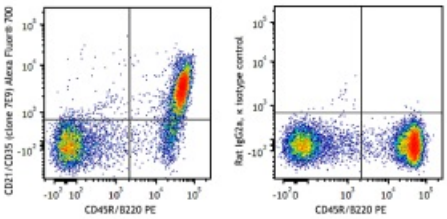
Immunogen: CD35/CFA

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

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

Concentration: 0.5



C57BL/6 splenocytes were stained with CD45R/B220 PE and CD21/CD35 (CR2/CR1) (clone 7E9) Alexa Fluor® 700 (left) or rat IgG2a, κ isotype control Alexa Fluor® 700 (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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application References:

1. Boackle S, *et al.* 2001 *Immunity* 15:775.
2. de Andres B, *et al.* 2012. *J. Immunol.* 189:2300. PubMed
3. Chiu YK, *et al.* 2014. *J Immunol.* 193:2207. PubMed
4. Koening PA, *et al.* 2014. *J Biol Chem.* 289:34490. PubMed

Description: CD21, also known as CR2 (complement receptor 2) and C3d receptor, binds C3d and iC3b. It is also a receptor of Epstein-Barr virus. CD35, also known as CR1, binds C3b, iC3b, C4b, and iC4b. CD21/CD35 is primarily expressed on B lymphocytes, mast cells, follicular dendritic cells, macrophages, and activated granulocytes. CD21/CD35 forms part of the B-cell antigen receptor complex with CD19 and CD81 and is involved in signal transduction.

Antigen References:

1. Kozono Y, *et al.* 1998. *J. Immunol.* 160:1562.
2. Shimizu I, *et al.* 2007. *Blood* 109:1773.
3. Roozendaal R and MC. Carroll. 2007. *Immunol. Rev.* 219:157.

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