SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse Qa-2

Catalog # / Size: 1208540 / 100 µg
1208535 / 25 µg

Clone: 695H1-9-9

Isotype: Mouse IgG2a, κ

Immunogen: C3H.SW mouse skin graft and splenocytes

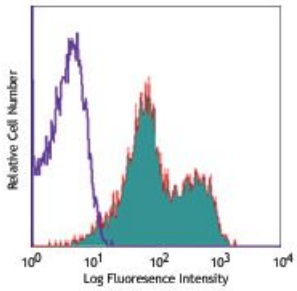
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with 695H1-9-9 Alexa Fluor® 647

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® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation2.

Application References:

1. Sharrow SO, *et al.* 1989. *J. Immunol.* 142:3495.
2. Patk E, *et al.* 1993. *Microbiol. Immunol.* 37:743.

Description: Mouse Qa-2 is a 40 kD GPI-linked surface protein. It is a member of nonclassical MHC class Ib molecule encoded by Q5, Q6, Q7, Q9, and Q10 genes of the H-2 complex. Qa-2 is a nonpolymorphic molecule primarily expressed on mouse T and B cells. The expression level of Qa-2 on mature T cells is higher than on B cells. Different mouse strains express Qa-2 at varying levels. Qa-2, in association with β2-microglobulin, binds to peptide and plays a role in antigen presentation.

Antigen References:

1. Sharrow SO, *et al.* 1989. *J. Immunol.* 142:3495.
2. Mann DW, *et al.* 1987. *J. Immunol.* 138:240.
3. Mellor AL, *et al.*1985. *Proc. Natl. Acad. Sci.USA.* 82:5920.
4. Tabaczewski P, *et al.* 1997. *J. Immunol.* 159:2771.
5. Chiang EY and Stroynowski I. 2005. *J. Immunol.* 174:5367.

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