

Brilliant Violet 510™ anti-mouse H-2Kd

Catalog # / Size: 1183125 / 50 µg

Clone: SF1-1.1

Isotype: Mouse IgG2a, κ

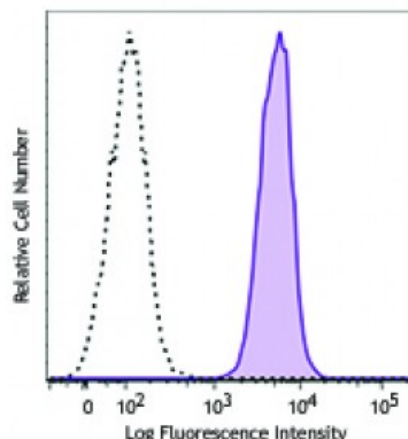
Immunogen: BALB/c Mouse cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



BALB/c mouse splenocytes were stained with H-2Kd (clone SF1-1.1) Brilliant Violet 510™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 510™ 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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

Application Notes: The SF1-1.1 antibody is weakly cross-reactive with H-2k but does not cross-react with other haplotypes (b, j, p, q, s, v). Clone SF1-1.1 recognizes the α3 domain of Kd.

Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,4} and Western blotting².

- Application References:**
1. Noun G, *et al.* 1996. *J. Immunol.* 157:2455. (IP)
 2. Abasto JP, *et al.* 1993. *J. Immunol.* 151:3569. (WB)
 3. Bashuda H, *et al.* 1997. *Transplantation* 63:113.
 4. Sester M, *et al.* 2000. *J. Biol. Chem.* 34:113. (IP)
 5. Ma XT, *et al.* 2006. *Cancer Res.* 66:1169. (FC)
 6. Norian LA and Allen PM. 2004. *J. Immunol.* 173:835. (FC)
 7. Norian L, *et al.* 2004. *J. Immunol.* 173:835. [PubMed](#)
 8. Delon J, *et al.* 1998. *Immunity* 9:467.

Description: The SF1-1.1 antibody reacts with the H-2Kd MHC class I alloantigens expressed on

nucleated cells from mice of the H-2Kd haplotype. H-2Kd is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins.

**Antigen
References:**

1. Watts C. 1997. *Annu. Rev. Immunol.* 15:821.
2. Pamer E, *et al.* 1998. *Annu. Rev. Immunol.* 16:323.
3. York I, *et al.* 1996. *Annu. Rev. Immunol.* 14:369.