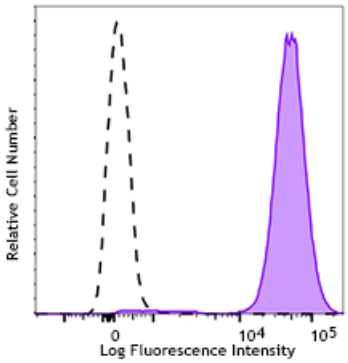
SONY

Product Data Sheet

Brilliant Violet 605™ anti-mouse H-2Kd

Catalog # / Size:	1183155 / 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 605™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Concentration:	0.2 mg/mL



BALB/c splenocytes were stained with H-2K^{d} (clone SF1-1.1) Brilliant Violet 605™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 605™ 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 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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

Additional reported applications (for the relevant formats) include: immunoprecipitation[1,4] and Western blotting[2].

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Application References:

1. Noun G, *et al.* 1996. *J. Immunol.* 157:2455. (IP)
2. Abastado 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-2K^{d} MHC class I alloantigens expressed on nucleated cells from mice of the H-2K^{d} haplotype. H-2K^{d} 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.