

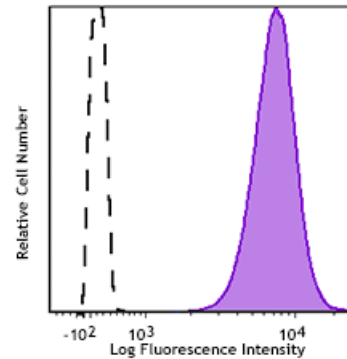
Brilliant Violet 510™ anti-mouse H-2K^b Antibody

Catalog # / Size: 1182615 / 50 µg
Clone: AF6-88.5
Isotype: Mouse IgG2a, κ
Immunogen: C57BL mouse splenocytes
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: 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with H-2K^b (clone AF6-88.5) 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 µg per million cells in 100 µl 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.

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Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation² and immunohistochemical staining of acetone-fixed frozen sections³. Clone AF6-88.5 is not suitable for immunohistochemical staining of formalin-fixed paraffin embedded sections.

Does not cross-react with other haplotypes (e.g., d, f, j, k, p, q, r, s, u, v).

**Application
References:**

1. Loken MR, et al. 1982. *J. Immunol. Methods* 50:R85.
 2. Wall KA, et al. 1983. *J. Immunol.* 131:1056.
 3. Andersson M, et al. 1998. *J. Immunol.* 161:6475.
 4. Shao H, et al. 2005. *J. Immunol.* 175:1851.
 5. Hui S, et al. 2005. *J. Immunol.* 175:1851. [PubMed](#)
 6. Zhou K, et al. 2010. *Cytotherapy.* 12:735. [PubMed](#)
 7. Desvignes L, et al. 2012. *J Immunol.* 188:6205. [PubMed](#)
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Description: The AF6-88.5 antibody reacts with H-2K^b MHC class I alloantigen expressed on nucleated cells from mice of the H-2K^b haplotype. H-2K^b is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins. The AF6-88.5 antibody does not cross-react with other haplotypes (d, f, j, k, p, q, r, s, u, v).

**Antigen
References:**

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