SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse H-2Db

Catalog # / Size: 1157560 / 100 µg

Clone: KH95

Isotype: Mouse IgG2b, κ

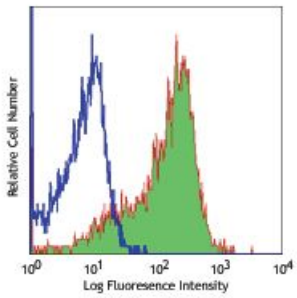
Immunogen: C57BL/10 mouse skin graft and splenocytes

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.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with KH95 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 10^6 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 633nm / 635nm.

Application Notes: Additional reported applications (for the relevant formats) include: complement-dependent cytotoxicity1, and Western blotting.

Application References:

1. Hasenkrug KJ, *et al.* 1987. *Immunogenetics* 25:136.
2. Shao H, *et al.* 2005. *J. Immunol.* 175:1851.
3. Ponomarev ED, *et al.* 2006. *J. Immunol.* 176:1402.
4. Robb RJ, *et al.* 2012 *Blood.* 119:5898. PubMed
5. Zhang P, *et al.* 2013. *J. Immunol.* 191:5291. PubMed
6. Quinn KM, *et al.* 2013. *J. Immunol.* 191:5085. PubMed
7. Markey KA, *et al.* 2014. *J Immunol.* 192:5426. PubMed
8. Hogan T, *et al.* 2014. *PLoS Comput Biol.* 10:1003805. PubMed

Description: The KH95 antibody reacts with the H-2D^b MHC class I alloantigen expressed on nucleated cells from mice of the H-2D^b haplotype. H-2D^b is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins. Reactivity with other haplotypes (*e.g.,* a,d,f,k,n,p,q,r,s,u,v) has not been reported.

Antigen References:

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

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