Technical Data Sheet

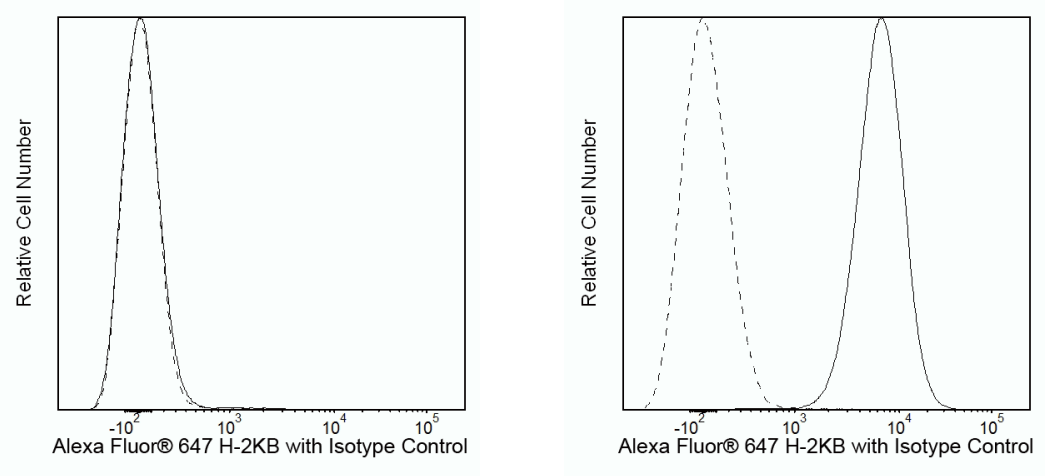
Alexa Fluor® 647 Mouse Anti-Mouse H-2K[b]

Product Information

Material Number:	**562832**
Alternate Name:	H2 class I histocompatibility alloantigen Kb
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	AF6-88.5
Immunogen:	Mouse C57BL splenocytes
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The AF6-88.5 antibody reacts with the H-2Kb MHC class I alloantigen. Reactivity with other haplotypes (e.g., d, f, j, k, p, q, r, s, u, v) has not been observed.



Multicolor flow cytometric analysis of H-2Kb expression on C57BL/6 mouse splenocytes. *Splenic leucocytes from a BALB/c (Left Panel) or a C57BL/6 (Right Panel) mouse were stained with Alexa Fluor® 647 Mouse IgG2a, κ Isotype Control (Cat. No. 557715; dashed line histogram) or with Alexa Fluor® 647 Mouse Anti-Mouse H-2Kb antibody (Cat. No. 562832; solid line histogram). The flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable splenic leucocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.*

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
557715	Alexa Fluor® 647 Mouse IgG2a, κ Isotype Control	100 tests	G155-178
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
7. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

Perarnau B, Saron MF, San Martin BR, et al. Single H2Kb, H2Db and double H2KbDb knockout mice: peripheral CD8+ T cell repertoire and anti-lymphocytic choriomeningitis virus cytolytic responses. *Eur J Immunol.* 1999; 29(4):1243-1252. (Clone-specific: Flow cytometry, Immunohistochemistry)
Wall KA, Lorber MI, Loken MR, McClatchey S, Fitch FW. Inhibition of proliferation of MIs- and Ia-reactive cloned T cells by a monoclonal antibody against a determinant shared by I-A and I-E. *J Immunol.* 1983; 131(3):1056-1064. (Clone-specific: Blocking, Flow cytometry, Immunoprecipitation)

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