

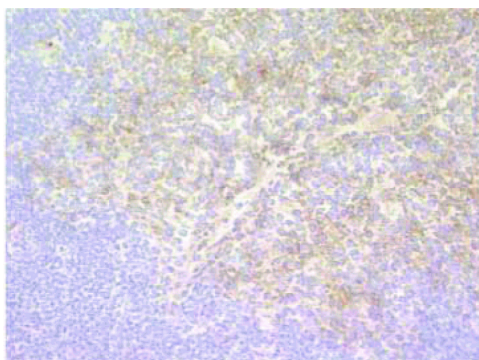
Technical Data Sheet

Biotin Mouse Anti-Mouse H-2K[b]**Product Information**

Material Number:	550550
Size:	1.0 ml
Concentration:	125 µg/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 BSA, goat serum, and ≤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.



Immunohistochemistry of H-2Kb positive cells. Frozen sections of mouse thymus were reacted with the anti-H2Kb antibody. Cells expressing the MHC class I molecule H-2Kb can be identified by the intense brown labeling of their cell membranes. Magnification 20X.

Preparation and Storage

Store undiluted at 4°C.

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

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Application Notes**Application**

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-paraffin	Not Recommended

Recommended Assay Procedure:

The AF6-88.5 clone reactive against mouse H-2Kb is recommended to test for immunohistochemical staining of acetone-fixed frozen sections. Tissues tested were mouse (C57B1/6) spleen and thymus. The antibody stains the H-2Kb molecules found on the surface of all nucleated cells in strains of mice expressing this haplotype. For optimal immunohistochemical staining, the biotinylated antibody should be titrated (1:10 to 1:50 dilution) and developed with Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). **The clone AF6-88.5 is not recommended for formalin-fixed paraffin embedded sections.**

Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
550880	DAB Substrate Kit	500 tests	(none)
553455	Biotin Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178
550946	Streptavidin HRP	50 ml	(none)
559148	Antibody Diluent for IHC	125 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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3. 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.
4. An isotype control should be used at the same concentration as the antibody of interest.
5. This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Loken MR, Stall AM. Flow cytometry as an analytical and preparative tool in immunology. *J Immunol Methods*. 1982; 50(3):R85-R112. (Immunogen)
Wall KA, Lorber MI, Loken MR, McClatchey S, Fitch FW. Inhibition of proliferation of Mls- 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. (Biology)

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