

Technical Data Sheet

Biotin Mouse Anti-Mouse I-A[b]

Product Information

Material Number:	553550
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	AF6-120.1
Immunogen:	Mouse C57BL/10J
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The AF6-120.1 antibody reacts with the I-A[b] MHC class II alloantigen. It cross-reacts with cells from mice of the H-2[k] and H-2[u] haplotypes. Reactivity with other haplotypes (e.g., *d, f, g7, p, q, r, s*) has not been observed.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

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.

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

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Reported

Recommended Assay Procedure:

For IHC, we recommend the use of biotinylated AF6.120.1 mAb in our special formulation for immunohistochemistry, Cat. No. 550553.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554061	PE Streptavidin	0.5 mg	(none)
550553	Biotin Mouse Anti-Mouse I-A[b]	1.0 ml	AF6-120.1
553455	Biotin Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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.

References

Beck BN, Buerstedde JM, Krco CJ, Nilson AE, Chase CG, McKean DJ. Characterization of cell lines expressing mutant I-Ab and I-Ak molecules allows the definition of distinct serologic epitopes on A alpha and A beta polypeptides. *J Immunol.* 1986; 136(8):2953-2961.(Clone-specific: Flow cytometry)
 Cohn LE, Glimcher LH, Waldmann RA, et al. Identification of functional regions on the I-Ab molecule by site-directed mutagenesis. *Proc Natl Acad Sci U S A.* 1986; 83(3):747-751.(Clone-specific: Flow cytometry)
 Hattori M, Buse JB, Jackson RA, et al. The NOD mouse: recessive diabetogenic gene in the major histocompatibility complex. *Science.* 1986; 231(4739):733-735. (Biology)
 Nabozny GH, Baisch JM, Cheng S, et al. HLA-DQ8 transgenic mice are highly susceptible to collagen-induced arthritis: a novel model for human polyarthritis. *J Exp Med.* 1996; 183(1):27-37.(Clone-specific)
 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.(Clone-specific: Flow cytometry)

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