

Technical Data Sheet

Biotin Mouse Anti-Mouse I-A[k]

Product Information

Material Number:	553539
Alternate Name:	A β k
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	10-3.6
Immunogen:	C3H mouse splenocytes
Isotype:	Mouse (CWB) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing \leq 0.09% sodium azide.

Description

The 10-3.6 antibody reacts with the β chain of the I-A[k] MHC class II alloantigen. It cross-reacts with splenocytes from mice of the H-2[f], H-2[r], and H-2[s] haplotypes, from nonobese diabetic (NOD, H-2[g7]) mice, and with lymph node cells of BN, DA, WRA, and WRC rats. Reactivity with other haplotypes (*e.g.*, *b*, *d*, *p*, *q*) has not been observed. Long-term *in vivo* treatment with 10-3.6 mAb has been reported to prevent the spontaneous development of autoimmune insulin-dependent diabetes mellitus (IDDM) in female NOD mice.

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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553455	Biotin Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178
554060	FITC Streptavidin	0.5 mg	(none)

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

- Blankenhorn EP, Symington FW, Cramer DV. Biochemical characterization of Ia antigens encoded by the RT1.B and RT1.D loci in the rat MHC. *Immunogenetics*. 1983; 17(5):475-484.(Biology)
- Boitard C, Bendelac A, Richard MF, Carnaud C, Bach JF. Prevention of diabetes in nonobese diabetic mice by anti-I-A monoclonal antibodies: transfer of protection by splenic T cells. *Proc Natl Acad Sci U S A*. 1988; 85(24):9719-9723.(Biology)
- Kupinski JM, Plunkett ML, Freed JH. Assignment of antigenic determinants to separated I-A kappa chains. *J Immunol*. 1983; 130(5):2277-2281.(Biology)
- Landias D, Beck BN, Buerstedde JM, et al.. The assignment of chain specificities for anti-Ia monoclonal antibodies using L cell transfectants. *J Immunol*. 1986; 137(9):3002-3005.(Biology)
- Oi VT, Jones PP, Goding JW, Herzenberg LA, Herzenberg LA. Properties of monoclonal antibodies to mouse Ig allotypes, H-2, and Ia antigens. *Curr Top Microbiol Immunol*. 1978; 81:115-129.(Immunogen)

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