

Technical Data Sheet

FITC Mouse Anti-Mouse I-A[k]

Product Information

Material Number:	553540
Alternate Name:	Aβk
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 protein stabilizer and ≤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

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 with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
----------------	------------------

Suggested Companion Products

Catalog Number	Name	Size	Clone
553456	FITC Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178
554656	Stain Buffer (FBS)	500 ml	(none)
553089	PE Rat Anti-Mouse CD45R/B220	0.1 mg	RA3-6B2

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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

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)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.979.9408	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD

