



CL065F

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## Polyclonal Antibody to MHC Class II Ia (reacts with all haplotypes except H-2s) - FITC

<b>Catalog No.:</b>	CL065F
<b>Quantity:</b>	0.5 ml
<b>Host:</b>	Mouse
<b>Format:</b>	<b>State:</b> Lyophilised Serum <b>Purification:</b> Protein G Chromatography <b>Buffer System:</b> 0.05 M carbonate buffer, pH 9.6. No preservatives added. <b>Label:</b> FITC <b>Reconstitution:</b> Restore with 0.5 ml of distilled water.
<b>Applications:</b>	Fluorescent Microscopy Analysis: 1:20. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Specificity:**

This anti-mouse Ia alloantiserum is a broadly reactive Ia antiserum. The antiserum is prepared by immunizing A.TH mice with A.TL splenocytes. These two strains are congenic, differing at the I region of the H-2 complex but identical at the K and D regions. The two strains are characterized by the following H-2 haplotypes: see **FIGURE 1**

The I region gene products (Ia antigens) potentially detected by this antiserum are those controlled by the following subregions: Ak, Bk, Ek, Ck i.e. it is a broadly reactive anti-Ia antiserum. It detects each of the following public and private specificities: Ia.1,2,3,7,15,19 and 22. As a result, this antiserum crossreacts with all standard haplotypes (i.e. H-2b,d,k,p,q,r) but does not crossreact with H-2s. The Ia antigens are expressed as cell surface antigens on lymphocyte subpopulations and macrophages and perhaps other non-lymphocytic cells. This fluorescein conjugated antibody can be used to localize or quantitate cells bearing the appropriate Ia antigens by fluorescence microscopy or cell sorter analysis. Since the A.TH anti-A.TL antiserum is cytotoxic, treatment of immunologically competent cell populations with this antiserum plus complement can quantitate cells bearing the corresponding Ia antigen or eliminate these cells from the population for functional studies.

Ia Antigens on Human B Lymphocytes: A.TH anti-A.TL antiserum is strongly cytotoxic to human B lymphocytes but is not cytotoxic to human T-lymphocytes. This antiserum appears to recognize a determinant present on both mouse Ia and human HLA-DR antigens. The antiserum reacts with B lymphocytes of all individuals, although there is one report that B cells of some individuals are not reactive. In addition to human peripheral blood B lymphocytes, this antiserum reacts with chronic lymphatic leukemia (CLL) cells and at least a portion of monocytes. As a cytotoxic antibody, it can be used with complement for the enumeration or elimination of B cells, and is particularly well-suited as a positive control serum for B cell typing. The antiserum can also be used for biochemical studies of HLA-DR molecules.

**Species:** Mouse, Human.  
Other species not tested.

**Add. Information:**

This antiserum is not sold as sterile. Filtration may result in severe loss of activity. If desired, sodium azide (0.02% final concentration) may be added as a preservative.

**Storage:**

Prior to reconstitution store at -20°C.  
Following reconstitution store the antibody at -70°C.  
Do not dilute prior to freezing. Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**Protocols:**

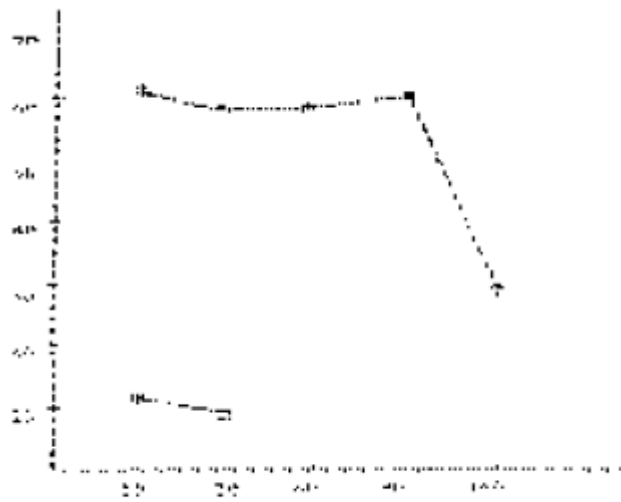
		<u>I</u>							
		K	A	B	E	C	S	G	D
A.TH	s	s	s	s	s	s	s	d	(K <sup>s</sup> I <sup>s</sup> D <sup>d</sup> )
A.TL	s	k	k	k	k	k	k	d	(K <sup>s</sup> I <sup>k</sup> D <sup>d</sup> )

Figure 1

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### Reciprocal of Final Antibody Dilution

Figure 2: Enriched splenic B-cells prepared by treatment of Lympholyte-M purified spleen lymphocytes with Monoclonal Anti-Thy 1.2 Antibody plus complement, followed by removal of dead cells on Lympholyte-M.