## OriGene Technologies, Inc.



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## Polyclonal Antibody to MHC Class II Ia (reacts with all haplotypes **CL065F** except H-2s) - FITC **Quantity:** 0.5 ml Host: Mouse Format: State: Lyophilised Serum **Purification:** Protein G Chromatography Buffer System: 0.05M carbonate buffer, pH 9.6, No preservatives added. Label: FITC Reconstitution: Restore with 0.5 ml of distilled water. **Applications:** Fluorescent Microscopy Analysis: 1/20. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. This anti-Mouse Ia alloantiserum is a broadly reactive Ia<sup>k</sup> antiserum. The antiserum is **Specificity:** 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 (Figure 1). The I region gene products (la antigens) potentially detected by this antiserum are those controlled by the following subregions: A<sup>k</sup>, B<sup>k</sup>, E<sup>k</sup>, C<sup>k</sup> i.e. it is a broadly reactive anti-la<sup>k</sup> 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-2<sup>b,d,k,p,q,r</sup>) but does not crossreact with H-2<sup>s</sup>. 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. la 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.

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|                   | H-2s) - FITC<br>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.  |  |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|--|
| Add. Information: |  |  |  |  |  |  |  |
| Storage:          | Prior to reconstitution store at -20°C.<br>Following reconstitution store the antibody at -70°C.<br>Do not dilute prior to freezing. Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.   |  |  |  |  |  |  |
| Protocols:        | <ul> <li>Recommended Working Display and the appropriate of the solution o</li></ul> |  |  |  |  |  |  |

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|           | CL065F: Polyclonal Antibody to MHC Class II Ia (reacts with all haplotypes except H-2s) - FITC  |   |                                       |  |  |  |  |  |  |
|-----------|---|---|---------------------------------------|--|--|--|--|--|--|
|           | Enriched Splenic B Cells: 52%<br>Lymph Node: 18%<br>Thymus: 3%  |   |                                       |  |  |  |  |  |  |
| Pictures: | Figure 2: Enriched splenic B-cells<br>prepared by treatment of Lympholyte-M<br>purified spleen lymphocytes with<br>Monoclonal Anti-Thy 1.2 Antibody plus<br>complement, followed by removal of<br>dead cells on Lympholyte-M. | 70 Water 10 | · · · · · · · · · · · · · · · · · · · |  |  |  |  |  |  |
|           |   | :   |                                       |  |  |  |  |  |  |

Reciprocal of Final Antibody Dilution

2.1 ·

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147

20

2.5

| <u>l</u> |   |   |   |   |   |   |   |   |   |  |
|----------|---|---|---|---|---|---|---|---|---|--|
|          | Κ | Α | В | Е | С | 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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