

Monoclonal Antibody to MHC Class II I-Ab - FITC

Alternate names:	H-2 class II histocompatibility antigen I-A beta chain, H2-Eb1
Catalog No.:	AM08075FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	MHC Class II antigens are heterodimers consisting of one alpha chain(31-34kD) and one beta chain (26-29kD). The family of monoclonal antibodies (ER-TR 3, ER-TR 2, ER-TR 1) detect MHC class II antigens encoded by the murine Ia region of the H-2 complex, corresponding to the human HLA-DR region. MHC Class II antigens are a valuable tool for studying T helper cell interaction with class II positive antigen presenting cells (dendritic cells, B cells, macrophages) and offer new possibilities for studying the development of T helper cells since these antibodies also stain stromal cells in the thymus. MHC Class II antigens are also inducible on a number of other cells (endothelium and epithelial cells) by interferon gamma.
Uniprot ID:	P18468
NCBI:	10090
Host / Isotype:	Rat / IgG2b
Clone:	NIMR-4
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 1 µg/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Specific to MHC Class II molecules. This antibody reacts specifically with a non-polymorphic I-A-encoded epitope on MHC Class II antigens. Class II antigens are predominantly expressed on antigen-presenting cells including B lymphocytes, macrophages, dendritic cells and certain epithelial cells. Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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

Pictures:

Immunofluorescent Staining: BALB/c spleen cells were stained with Rat Anti-Mouse MHC II-FITC, following which small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $\leq 1 \mu\text{g}/10^6$ cells.

