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Monoclonal Antibody to MHC Class II - FITC

Alternate names: HLA Class II, Human Leukocyte antigen class II, MHC Class 2, Major histocompatibility complex class II

Catalog No.: AM08131FC-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.

Host / Isotype: Mouse / IgG1

Clone: 2G11

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. (Ref.2-6)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes Chicken MHC Class II (B-L) molecules.
Species: Chicken.
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.

General Readings:
1. Guillemot, F., P. Turmal, D. Charron, M. Le Douarin, and C. Auffray. 1986. J. Immunol. 137:1251.
2. Lawson, S., L. Rothwell, B. Lambrecht, K. Howes, K. Venugopal, and P. Kaiser. 2001. Dev. Comp. Immunol. 25:69.
3. Koritschoner, N.P., J. Madruga, S. Knespel, G. Blendinger, B. Anzinger, A. Otto, M. Zenke, and P. Bartunek. 2001. Cell Growth Differ.
12:563.

4. Katevuo, K., and O. Vainio. 1996. Immunol. 89:419.
5. Madruga, J., N. Koritschoner, S.S. Diebold, S.M. Kurz, and M. Zenke. 1999. J. Cell Sci. 112:1685.
6. Salomonsen, J., D. Dunon, K. Skjodt, D. Thorpe, O. Vainio, and J. Kaufman. 1991. Proc. Natl. Acad. Sci. USA. 88:1359.
7. Kaufman, J., K.Skjoedt, J. Salomonsen, M. Simonsen, L. Du Pasquier, R. Parisot, and P. Riegert. 1990. J. Immunol. 144:2258.