

1F-621-C500

## Monoclonal Antibody to MHC Class II (mouse) Fluorescein (FITC) conjugated (0.5 mg)

<b>Clone:</b>	M5/114
<b>Isotype:</b>	Rat IgG2b
<b>Specificity:</b>	The rat monoclonal antibody M5/114 reacts with murine MHC class II glycoproteins. It recognizes a shared determinant on I-Ab, I-Ad, I-Aq, and I-Ed, I-Ek alloantigens, but it does not react with I-Af, I-Ak, I-As. This antibody can inhibit I-A-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not H-2f, H-2k, H-2s haplotypes.
<b>Immunogen:</b>	Activated C57BL/6 mouse spleen cells
<b>Species Reactivity:</b>	Mouse
<b>Preparation:</b>	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
<b>Concentration:</b>	0.5 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis. Suggested working concentration is 4 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	MHC (major histocompatibility complex) class II molecules are transmembrane glycoproteins expressed on the surface of professional antigen-presenting cells, such as macrophages, dendritic cells and B cells. Before their exposition on the cell surface, the MHC class II molecules react with endocytosed exogenous antigens, which are then presented to the T cells. The antigen-binding groove between MHC class II alpha and beta chain is open at both ends and is 15-24 amino acid residues long.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*Beers C, Burich A, Kleijmeer MJ, Griffith JM, Wong P, Rudensky AY: Cathepsin S controls MHC class II-mediated antigen presentation by epithelial cells in vivo. *J Immunol.* 2005 Feb 1;174(3):1205-12.
- \*Kuwano Y, Prazma CM, Yazawa N, Watanabe R, Ishiura N, Kumanogoh A, Okochi H, Tamaki K, Fujimoto M, Tedder TF: CD83 influences cell-surface MHC class II expression on B cells and other antigen-presenting cells. *Int Immunol.* 2007 Aug;19(8):977-92.
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- \*And many other.

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