

Product datasheet for **AM08075PU-N**

MHC Class II I-Ab Rat Monoclonal Antibody [Clone ID: NIMR-4]

Product data:

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|-----------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | NIMR-4 |
| Applications: | FC, FN |
| Recommended Dilution: | Flow Cytometry: $< / = 1 \mu\text{g}/10\text{e6 cells}$. Complement-dependent Cytotoxicity Assays. |
| Reactivity: | Mouse |
| Host: | Rat |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| 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. |
| Formulation: | 100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction. |
| Concentration: | lot specific |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | P18468 |



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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.

Synonyms:

H2-Eb1, H-2 class II histocompatibility antigen I-A beta chain