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# Product datasheet for AM32426AF-N

## HLA Class II DR Mouse Monoclonal Antibody [Clone ID: B-C10]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | B-C10 |
| **Applications:** | FC |
| **Recommended Dilution:** | **Flow Cytometry.** |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG2b |
| **Clonality:** | Monoclonal |
| **Immunogen:** | RPMI 8866 and DAUDI cell lines.<br>Myeloma X63/AG.8653 x Balb/c spleen cells. |
| **Specificity:** | This Monoclonal antibody recognises the HLA Class II (DR) membrane. |
| **Formulation:** | PBS without carriers and preservatives<br>State: Azide Free<br>State: Liquid purified (0.2 µm sterile filtered) IgG fraction |
| **Concentration:** | lot specific |
| **Purification:** | Ion Exchange Chromatography |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody undiluted at 2-8°C. |
| **Stability:** | Shelf life: one year from despatch. |

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**Background:** Major histocompatibility complex (MHC) class II molecules destined for presentation to CD4+ helper T cells is determined by two key events. These events include the dissociation of class II-associated invariant chain peptides (CLIP) from an antigen binding groove in MHC II alpha/beta dimers through the activity of MHC molecules HLA-DM and -DO, and subsequent peptide antigen binding. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM, -DO molecules regulate the dissociation of CLIP and the subsequent binding of exogenous peptides to HLA class II molecules (HLA-DR, -DQ and -DP) by sustaining a conformation that favors peptide exchange. RFLP analysis of HLA-DM genes from rheumatoid arthritis (RA) patients suggests that certain polymorphisms are genetic factors for RA susceptibility. HLA-B belongs to the HLA class I heavy chain paralogs. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. HLA-B and -C can form heterodimers consisting of a membrane anchored heavy chain and a light chain (beta-2-Microglobulin). Polymorphisms yield hundreds of HLA-B and -C alleles.

**Synonyms:** HLA-DR, HLA class II histocompatibility antigen DR, MHC class II antigen DR