

## Product datasheet for **AM32426PU-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:	<b>Flow Cytometry:</b> Use 10 µl of 10 <sup>6</sup> cells or 100 µl of whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	RPMI 8866 and DAUDI cell lines. Myeloma X63/AG.8653 x Balb/c spleen cells.
Specificity:	This Monoclonal antibody recognises the HLA Class II (DR) membrane.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
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<sup>+</sup> 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