

AM32426FC-N**Monoclonal Antibody to HLA Class II DR - FITC**

Alternate names:	HLA class II histocompatibility antigen DR, HLA-DR, MHC class II antigen DR
Quantity:	1ml (100T)
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.
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12F
Clone:	B-C10
Immunogen:	RPMI 8866 and DAUDI cell lines. Myeloma X63/AG.8653 x Balb/c spleen cells.
Format:	State: Liquid purified IgG fraction Purification: Ion Exchange Chromatography Buffer System: PBS Preservatives: 0.09% Sodium Azide Stabilizers: 5% BSA Label: FITC
Applications:	Flow Cytometry: Use 10 µl to label 10 ⁶ cells or 100 µl of whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Monoclonal antibody recognises the HLA Class II (DR) membrane.
Species Reactivity:	Tested: Human.
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.

Pictures:

A typical staining pattern of lymphocytes with the B-C10 monoclonal antibody.

