

SM1225F**Monoclonal Antibody to HLA Class II DP, DR, DQ - FITC**

Alternate names:	DQ, DQ, DR, DR, HLA class II histocompatibility antigen DP, MHC class II antigen DP
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>The major histocompatibility complex (MHC) is a large genomic region or gene family found in most vertebrates containing many genes with important immune system roles. In humans, the MHC spans almost 4 megabases of chromosome 6 and includes more than 200 known genes, of which about half have known immunological functions. The best known genes in the MHC region are the subset that encodes cell-surface antigen-presenting proteins. In humans, these genes are referred to as human leukocyte antigen (HLA) genes. The most intensely studied HLA genes are: HLA A, HLA B, HLA C, HLA DPA, HLA DPB1, HLA DQA1, HLA DQB1, HLA DRA, and HLA DRB1. In humans, the HLA is divided into three regions: Class I, II, and III. The A, B, and C genes belong to HLA class I while the six D genes belong to class II.</p> <p>The antigen is expressed by B lymphocytes, monocytes and activated T lymphocytes.</p>
Host / Isotype:	Mouse / IgG2a
Clone:	WR18
Immunogen:	<p>Human HLA Class II.</p> <p>Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS.0 myeloma cell line.</p>
Format:	<p>State: Liquid purified IgG fraction.</p> <p>Purification: Affinity Chromatography on Protein G.</p> <p>Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells or 100 µl whole blood.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognises a common determinant on the beta chain of Human MHC Class II, and stains cells expressing HLA-DR, DP and DQ.</p> <p>Species: Human.</p> <p>Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>
General Readings:	1. Moore, K. et al. (1987) J. Pathol. 152: 13.