

Product datasheet for **SM1225F**

HLA Class II DP, DR, DQ Mouse Monoclonal Antibody [Clone ID: WR18]

Product data:

Product Type:	Primary Antibodies
Clone Name:	WR18
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells or 100 µl whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human HLA Class II. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS.0 myeloma cell line.
Specificity:	This antibody recognises a common determinant on the beta chain of Human MHC Class II, and stains cells expressing HLA-DR, DP and DQ.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

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. The antigen is expressed by B lymphocytes, monocytes and activated T lymphocytes.

Synonyms:

MHC class II antigen DP, DR, DQ, HLA class II histocompatibility antigen DP, DR, DQ