

## Monoclonal Antibody to MHC Class II DQ (monomorphic) - FITC

<b>Catalog No.:</b>	SM2050F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	The distribution of DQ molecules on T lymphocytes has been shown to differ with immune status and age. Expression of DQ is upregulated after recent activation.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	38.27
<b>Immunogen:</b>	Ovine efferent duct lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: Neat - 1/10; Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises a monomorphic epitope on MHC class II DQ molecules. <b>Species:</b> Sheep, Bovine, Goat. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Puri NK, Mackay CR, Brandon MR. Sheep lymphocyte antigens (OLA). II. Major histocompatibility complex class II molecules. Immunology. 1985 Dec;56(4):725-33. PubMed PMID: 3908294. 2. Puri NK, Gogolin-Ewens KJ, Brandon MR. Monoclonal antibodies to sheep MHC class I and class II molecules: biochemical characterization of three class I gene products and four distinct subpopulations of class II molecules. Vet Immunol Immunopathol. 1987 May;15(1-2):59-86. PubMed PMID: 3303652. 3. Sainte Marie, G. et al. (1962) A paraffin embedding technique for studies employing immunofluorescence. J. Histochem. Cytochem. 10: 250 4. Puri NK, Brandon MR. Sheep MHC class II molecules. II. Identification and characterization of four distinct subsets of sheep MHC class II molecules. Immunology.

1987 Dec;62(4):575-80. PubMed PMID: 3480873.

5. Puri NK, de Kretser T, Brandon MR. Monoclonal antibodies to sheep MHC class II molecules recognize all HLA-D or subsets of HLA-D region products. Hum Immunol. 1987 Nov;20(3):195-207. PubMed PMID: 3501780.

6. Ballingall KT, Dutia BM, Hopkins J, Wright H. Analysis of the fine specificities of sheep major histocompatibility complex class II-specific monoclonal antibodies using mouse L-cell transfectants. Anim Genet. 1995 Apr;26(2):79-84. PubMed PMID: 7733511.