

Monoclonal Antibody to MHC Class II DQ/DR (polymorphic) - FITC

Catalog No.:	SM2032F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Ovine MHC class II antigens are expressed on several cell types, including B cells, activated T cells, monocytes, macrophages and dendritic cells.
Host / Isotype:	Mouse / IgG1
Clone:	28.1
Immunogen:	Ovine alveolar macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Neat - 1/5; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises a polymorphic epitope on MHC class II DQ and DR molecules. In recent work, this clone was found to recognise MHC II transfectants DQ-T28.1, DQ - T26.2 and DR - T31.3 but not DR - T8.1 (Ballingall.k. etal. 1995). Species: Sheep. Other species not tested.
Storage:	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.
General Readings:	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. 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.

4. Puri, N. et al. (1987) Sheep MHC class II molecules II. Identification and characterization of sheep MHC class II molecules. Immunology. 62: 575 - 580.

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. Sainte-Marie, G. et al. (1962) A paraffin embedding technique for studies employing immunofluorescence. J. Histochem. Cytochem. 10: 250

7. 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.

Pictures:

Staining of sheep peripheral blood lymphocytes with MOUSE ANTI OVINE MHC CLASS II DQ/DR:FITC (SM2032F).

