

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

<b>Catalog No.:</b>	SM2032P
<b>Quantity:</b>	0.25 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Ovine MHC class II antigens are expressed on several cell types, including B cells, activated T cells, monocytes, macrophages and dendritic cells.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	AM03095PU-N
<b>Clone:</b>	28.1
<b>Immunogen:</b>	Ovine alveolar macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 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
<b>Applications:</b>	Immunoprecipitation. Immunohistochemistry on frozen sections. Flow Cytometry: 1/100; 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.
<b>Specificity:</b>	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. (Balligall.K. et al. 1995). This clone has been reported to react with paraffin-embedded material following alcohol fixation. Please refer to reference Sainte Marie et al for more information. <b>Species:</b> Sheep. 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. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Puri, N. et al. (1985) Sheep lymphocyte antigens (OLA) II. Major histocompatibility complex class II molecules. Immunology. 56: 725 - 733. 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

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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.