

Monoclonal Antibody to MHC Class II DQ (monomorphic) - Purified

Catalog No.:	SM2050P
Quantity:	0.25 mg
Concentration:	1.0 mg/ml
Background:	The distribution of ovine DQ molecules on T lymphocytes has been shown to differ with immune status and age. Expression of DQ is upregulated after recent activation.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	38.27
Immunogen:	Ovine efferent duct lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 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
Applications:	Immunoprecipitation. Immunohistochemistry on frozen sections. Flow Cytometry: 1/100 - 1/200; Use 10µl of the suggested working dilution to label 1 x 10 ⁶ 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 monomorphic epitope on MHC class II DQ molecules. This clone has been reported to react with paraffin-embedded material following alcohol fixation. Please refer to reference Sainte Marie et al for information about this protocol. Species: Sheep, Bovine, Goat. 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. 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. 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.