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

Catalog No.: SM2081P

Quantity: 0.25 mg

Concentration: 1.0 mg/ml

Background: The expression of ovine MHC class II molecules is restricted to B cells, activated T cells, monocytes, macrophages, dendritic cells and some endothelial and epithelial cells.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: AM03095PU-N

Clone: 49.1

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.
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.
Flow Cytometry: 1/50 - 1/200; Use 10µl of the suggested working dilution to label 1 x 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 ovine MHC transfectants DQ - T28.1, DR - T8.1 DR - T31.3, but not DQ - T26.2. (Ballingall. K. et al. 1995).
Species: Sheep, Bovine, Goat, Human.
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, 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.
2. Sainte-Marie, G. et al. (1962) A paraffin embedding technique for studies employing immunofluorescence. J. Histochem. Cytochem. 10: 250
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 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.
5. 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 (POLYMORPHIC) (SM2081P).