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# Monoclonal Mouse Antibody to Ovine MHC Class II DQ/DR (Polymorphic) - RPE

**Catalog No.:** SM2032R

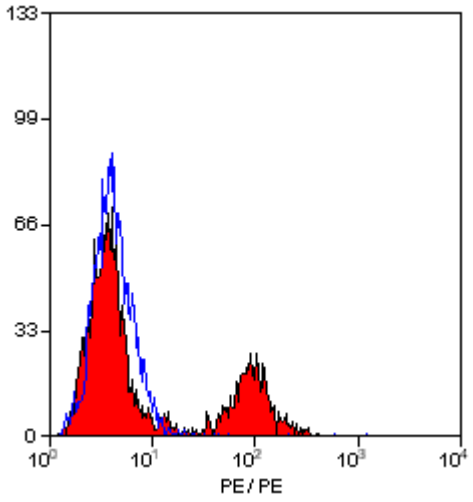
**Quantity/Conc.:** 100 Tests, 1.0ml

**Clone:** 28.1

**Immunogen:** Ovine alveolar macrophages

**Host/Isotype:** Mouse IgG1

**Format:** This antibody is supplied as Protein G affinity purified IgG fraction conjugated to R. Phycoerythrin (RPE), lyophilized from PBS pH7.4 with 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Reconstitute with 1 ml distilled water.




*Staining of sheep peripheral blood lymphocytes with MOUSE ANTI OVINE MHC CLASS II DQ/DR:RPE*

**Applications:** Flow Cytometry (Neat - 1:10, use 10ul to label $10^6$ cells in 100ul). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.

**Specificity:** This antibody recognizes a polymorphic epitope on ovine MHC class II DQ and DR molecules. In recent work, this clone was found to recognize ovine MHC II transfectants DQ-T28.1, DQ - T26.2 and DR - T31.3 but not DR - T8.1 (Ballingall.k. *etal.* 1995). Ovine MHC class II antigens are expressed on several cell types, including B cells, activated T cells, monocytes, macrophages and dendritic cells. Other species not tested.

**Storage:** Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

**References:**

1. Puri, N. *et al*. (1985). Sheep lymphocyte antigens (OLA) II. Major histocompatibility complex class II molecules. Immunology. 56: 725 - 733.
2. Puri, N. *et al*. (1987). 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. 15: 59 - 86.
3. Puri, N. *et al*. (1987). Sheep MHC II class molecules II. Identification and characterization of four distinct subsets of sheep MHC class II molecules. Immunology. 62: 567 - 573.
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, N. *et al*. (1987). Monoclonal antibodies to sheep MHC class II molecules recognize all HLA-D or subsets of HLA-D region products. Hum. Immunol. 20: 195 - 207.
6. Sainte-Marie, G. *et al*. (1962). A paraffin embedding technique for studies employing immunofluorescence. J. Histochem. Cytochem. 10: 250
7. Ballingall. K. *et al*. (1995). Analysis of the fine specificities of sheep major histocompatatibility complex class II - specific monoclonal antibodies using mouse L - cell transfectants. Anim. Genet. 26: 79-84.

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