

Monoclonal Antibody to MHC Class II DQ beta / HLA-DQB - Supernatant

Alternate names:	DQ beta chain, HLA class II histocompatibility antigen, MHC class II antigen DQB1
Catalog No.:	SM477
Quantity:	2 ml
Background:	The major histocompatibility complex (MHC) is a cluster of genes some of which are important in the immune response to infections. In sheep, this complex is referred to as the ovine leukocyte antigen (OLA) region. There are 2 major types of MHC class IIa molecules encoded by the OLA which are DR and DQ each composed of an alpha and beta chain.
Host / Isotype:	Mouse / IgG1
Clone:	VPM41
Immunogen:	Acid treated ovine MHC Class II.
Format:	State: Liquid Tissue Culture Supernatant Buffer System: 0.2M Tris/HCl pH7.4 and 5-10% Foetal Calf Serum Preservatives: 0.01% Sodium Azide
Applications:	ELISA. Flow Cytometry. Immunoprecipitation. Immunohistochemistry on Frozen Sections. Clone VPM41 has been reported as being suitable for use in Western blotting . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes a polymorphic epitope on the beta chain of Sheep MHC Class II DQ molecules, which are constitutively expressed on antigen presenting cells such as dendritic cells, B lymphocytes, monocytes, macrophages, activated T lymphocytes and may be induced on a range of other cell types by interferon gamma.
Species Reactivity:	Tested: Sheep.
Storage:	Store 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. Dutia BM, Hopkins J, Allington MP, Bujdoso R, McConnell I. Characterization of monoclonal antibodies specific for alpha- and beta-chains of sheep MHC class II. Immunology. 1990 May;70(1):27-32. PubMed PMID: 2354860. 2. Ballingall KT, Wright H, Redmond J, Dutia BM, Hopkins J, Lang J, et al. Expression and characterization of ovine major histocompatibility complex class II (OLA-DR) genes. Anim

Genet. 1992;23(4):347-59. PubMed PMID: 1503274.

3. 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.