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SM477

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

DQ beta chain, HLA class II histocompatibility antigen, MHC class II antigen DQB1 Alternate names:

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

Acid treated ovine MHC Class II. Immunogen:

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.

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. **Storage:**

> Avoid repeated freezing and thawing. Shelf life: one year from despatch.

1. Dutia BM, Hopkins J, Allington MP, Bujdoso R, McConnell I. Characterization of **General Readings:**

monoclonal antibodies specific for alpha- and beta-chains of sheep MHC class II.

Immunology. 1990 May;70(1):27-32. PubMed PMID: 2354860.

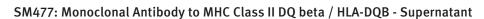
2. Ballingall KT, Wright H, Redmond J, Dutia BM, Hopkins J, Lang J, et al. Expression and characterization of ovine major histocompatibility complex class II (OLA-DR) genes. Anim

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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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.