

MHC II (HLA-DQ) Ab-1 (Clone SPV-L3)

Mouse Monoclonal Antibody

Cat. #MS-163-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)**Cat. #MS-163-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Please note this data sheet has been changed effective December 6, 2011**

Description: MHC class II antigens are transmembrane glycoproteins of non-covalently linked alpha (33-35kDa) and beta (27-30kDa) chains. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells. They therefore have a critical role in the initiation of the immune response. Differential expression of MHC class II antigens on fetal and adult lymphocytes, malignant B cells appears to reflect the stage of cell differentiation which may be useful in the study of lymphoproliferative disorders.

Epitope: Not determined**Species Reactivity:** Human and Pig. Others-not known.**Clone Designation:** SPV-L3**Ig Isotype:** IgG_{2a}**Immunogen:** T4-positive CTL clone HG-38**Applications:**

- Blockade of cytotoxicity of T4-positive cytotoxic T cell clones (Not verified at Lab Vision)
- Flow Cytometry
- Immunofluorescence
- Immunohistology (frozen only)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Tonsil or lymph node**Cellular Localization:** Cell membrane**Supplied As:**

200µg/ml antibody purified from the ascites fluid by Protein A chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Spits H *et. al.* Hybridoma, 1983, 2(4):423-37.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

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Suggested References:

- Cunningham AC; Milne DS; Wilkes J; Dark JH; Tetley TD; Kirby JA. Constitutive expression of MHC and adhesion molecules by alveolar epithelial cells (type II pneumocytes) isolated from human lung and comparison with immunocytochemical findings. *Journal of Cell Science*, 1994, 107:443-9.
- Baudouin C; Fredj-Reygrobellet D; Brignole F; Lapalus P; Gastaud P. MHC class II antigen expression by ocular cells in proliferative diabetic retinopathy. *Fundamental and Clinical Pharmacology*, 1993, 7(9):523-30.
- Dimal P; Wilders-Truschning M; Mooij P; Leb G; Eber O; Langsteger W; Hebenstreit J; Beham A; Stiegler C; Dohr G; et al. Expression of various MHC class II molecules and of intracellular adhesion molecule-1 (ICAM-1) on focal clusters of dendritic cells in iodine deficiency goitres. *Clinical and Experimental Immunology*, 1993, 92(3):397-403.
- Mcdonagh AJ; Snowden JA; Stierle C; Elliott K; Messenger AG. HLA and ICAM-1 expression in alopecia areata in vivo and in vitro: the role of cytokines. *British Journal of Dermatology*, 1993, 129(3):250-6.
- Suzumura Y; Ohashi M. Immunoelectron localization of HLA-DR, HLA-DP, and HLA-DQ antigens on the microvasculature in normal skin. *Journal of the American Academy of Dermatology*, 1993, 29:202-5.
- Thrane PS; Halstensen TS; Haanaes HR; Brandtzaeg P. Increased epithelial expression of HLA-DQ and HLA-DP molecules in salivary glands from patients with Sjogren's syndrome compared with obstructive sialadenitis. *Clinical and Experimental Immunology*, 1993, 92(2):256-62.
- Branchet MC; Boisnic S; Bletry O; Robert L; Charron D; Frances C. Expression of HLA class II antigens on skin fibroblasts in scleroderma. *British Journal of Dermatology*, 1992, 126(5):431-5.
- Cifuentes-Diaz C; Delaporte C; Dautreux B; Charron D; Fardeau M. Class II MHC antigens in normal human skeletal muscle. *Muscle and Nerve*, 1992, 15(3):295-302.
- Edelstam GA; Lundkvist OE; Klareskog L; Karlsson-Parra A. Cyclic variation of major histocompatibility complex class II antigen expression in the human fallopian tube epithelium. *Fertility and Sterility*, 1992, 57(6):1225-9.
- Venning VA; Dean D; Wojnarowska F. Absence of expression of class II major histocompatibility complex determinants on keratinocytes in bullous pemphigoid. *British Journal of Dermatology*, 1992, 126(5):463-7.
- Helbig H; Kittredge KL; Palestine AG; Coca-Prados M; Nussenblatt RB. Gamma-interferon induces differential expression of HLA-DR, -DP and -DQ in human ciliary epithelial cells. *Graefes Archive for Clinical and Experimental Ophthalmology*, 1991, 229(2):191-4.
- Thrane PS; Halstensen TS; Rognum TO; Brandtzaeg P. Expression of HLA class I and II (DR, DP and DQ) determinants in fetal and postnatal salivary glands. *Scandinavian Journal of Immunology*, 1991, 34(5):539-48.
- Hubscher SG; Adams DH; Elias E. Changes in the expression of major histocompatibility complex class II antigens in liver allograft rejection. *Journal of Pathology*, 1990, 162(2):165-71.
- McDougall CJ; Ngoi SS; Goldman IS; Godwin T; Felix J; DeCosse JJ; Rigas B. Reduced expression of HLA class I and II antigens in colon cancer. *Cancer Research*, 1990, 50(24):8023-7.
- Barkley D; Allard S; Feldmann M; Maini RN. Increased expression of HLA-DQ antigens by interstitial cells and endothelium in the synovial membrane of rheumatoid arthritis patients compared with reactive arthritis patients. *Arthritis and Rheumatism*, 1989, 32(8):955-63.
- Farthing PM; Cruchley AT. Expression of MHC class II antigens (HLA DR, DP and DQ) by keratinocytes in oral lichen planus. *Journal of Oral Pathology and Medicine*, 1989, 18(5):305-9.
- Moller P; Mattfeldt T; Gross C; Schlosshauer P; Koch A; Koretz K; Moldenhauer G; Kaufmann M; Otto HF. Expression of HLA-A, -B, -C, -DR, -DP, -DQ, and of HLA-D-associated invariant chain (Ii) in non-neoplastic mammary epithelium, fibroadenoma, adenoma, and carcinoma of the breast. *American Journal of Pathology*, 1989, 135(1):73-83.
- Taylor PM; Rose ML; Yacoub MH. Expression of MHC antigens in normal human lungs and transplanted lungs with obliterative bronchiolitis. *Transplantation*, 1989, 48(3):506-10.
- Barker JN; Ophir J; MacDonald DM. Products of class II major histocompatibility complex gene subregions are differentially expressed on keratinocytes in cutaneous diseases. *Journal of the Am Academy of Dermatology*, 1988, 19:667-72.
- Borthwick GM; Holmes RC; Stirrat GM. Abnormal expression of class II MHC antigens in placentae from patients with pemphigoid gestationis: analysis of class II MHC subregion product expression. *Placenta*, 1988, 9(1):81-94.
- Brooks CF; Moore M. Differential MHC class II expression on human peripheral blood monocytes and dendritic cells. *Immunology*, 1988, 63:303-11.
- Hayashi T; Morimoto C; Burks JS; Kerr C; Hauser SL. Dual-label immunocytochemistry of the active multiple sclerosis lesion: major histocompatibility complex and



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activation antigens. *Annals of Neurology*, 1988, 24(4):523-31.

23. Kelly J; Weir DG; Feighery C. Differential expression of HLA-D gene products in the normal and coeliac small bowel. *Tissue Antigens*, 1988, 31(3):151-60.

24. Oliver AM; Thomson AW; Sewell HF; Abramovich DR. Major histocompatibility complex (MHC) class II antigen (HLA-DR, DQ, and DP) expression in human fetal endocrine organs and gut. *Scandinavian J of Immunology*, 1988, 27:731-7.

25. Thrane PS; Brandtzaeg P. Differential expression of epithelial MHC class II determinants (HLA-DR, -DP, and -DQ) and increased class I expression in inflamed salivary glands. *Advances in Experimental Medicine and Biol*, 1988, 237:681-8.

26. Vermeer BJ; Mommaas AM; Wijsman MC; Koning F; Claas FH. Ultrastructural localization of HLA-DR and HLA-DQ molecules in Langerhans cells and B cells: an immunoelectronmicroscopic study. *Regional Immunology*, 1988, 1(2):85-91.

