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Monoclonal Antibody to HLA Class II DP, DR, DQ - Supernatant

Alternate names: DQ, DQ, DR, DR, HLA class II histocompatibility antigen DP, HLA-DP, HLA-DQ, HLA-DR, MHC

class II antigen DP

Catalog No.: DM069
Quantity: 1 ml

Background: The major histocompatibility complex (MHC) is a large genomic region or gene family found

in most vertebrates containing many genes with important immune system roles. In humans, the MHC spans almost 4 megabases of chromosome 6 and includes more than 200 known genes, of which about half have known immmunological functions. The best known genes in the MHC region are the subset that encodes cell-surface antigen-

presenting proteins. In humans, these genes are referred to as human leukocyte antigen (HLA) genes. The most intensely studied HLA genes are: HLA A, HLA B, HLA C, HLA DPA, HLA DPB1, HLA DQA1, HLA DQB1, HLA DRA, and HLA DRB1. In humans, the HLA is divided into three regions: Class I, II, and III. The A, B, and C genes belong to HLA class I while the six D

genes belong to class II.

Host / Isotype: Mouse / IgG2a

Clone: CR3/43 Immunogen: Tonsil cells.

Format: State: Tissue Culture Supernatant containing Sodium Azide as preservative.

Applications: Immunohistochemistry on Formalin-Fixed Paraffin Embedded Sections: Use a dilution of

1/25-1/50 in an ABC method (30 minutes at room temperature).

Positive Control: Tonsil.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody reacts with the beta chain of all products of the gene subregions DP, DQ, and

DR.

It stains B cells, interdigitating reticulum cells, Langerhan's cells and many macrophages. The antibody does not react with normal T cell and polymorphs but stains activated T cells.

Cellular Localization: Cell membrane.

Species: Human.

Other species not tested.

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. Smith et al. J Clin Pathol 40: 34, 1987.

2. Stein et al. Adv Cancer Res 42: 67, 1984.

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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3. Zaloudik et al. J Clin Pathol 41: 1078, 1984.