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HLA-DQ (MHC II) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM422]
Catalog # AH11428

Product Information

Application	IHC, IF, FC
Primary Accession	P01908
Other Accession	3117, 3118, 3119, 550475, P01909, P01920
Reactivity	Human, Pig
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Clone Names	SPM422
Calculated MW	60 KDa

Additional Information

Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	HLA-DQ (MHC II) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

Recognizes a DQ antigen, which is a dimer of 60kDa. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B Lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35kDa. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. This MAb strongly blocks cytotoxicity activity of T4-positive cytotoxic T cell clones.

References

Spits H; Keizer G; Borst J; Terhorst C; Hekman A; de Vries JE. Characterization of monoclonal antibodies against cell surface molecules associated with cytotoxic activity of natural and activated killer cells and cloned CTL lines. Hybridoma, 1983, 2(4):423-37. | Spits H., Borst J., Giphan M., Coligan J., Terhorst C. and de

Vries J., Eur. J. Immunol. 14, (1984). | Bontrop R., Schreuder G., Mikalski E., van Miltenburg R. and Giphan M., Tissue Antigens, 27, (1986). |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.