



11-474-C100

Monoclonal Antibody to HLA-DR Purified Antibody (0.1 mg)

Clone:	MEM-12
Isotype:	Mouse IgG1
Specificity:	The antibody MEM-12 recognizes common epitope on human HLA-DR which is dependent on the association of alpha and beta chains. DR is the isotype of human MHC Class II molecules expressed on antigen-presenting cells (APC; dendritic cells, B lymphocytes, monocytes, macrophages).
Immunogen:	thymocyte membrane
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution: 2 µg/ml Positive control: B-lymphocytes, Monocytes, DAUDI cell line, RAJI cell line Immunoprecipitation Positive control: B-lymphocytes, Monocytes, DAUDI cell line, RAJI cell line Western Blotting Positive control: B-lymphocytes, Monocytes, DAUDI cell line, RAJI cell line Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Do not heat/boil. Application note: Non-reducing conditions.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from ascites by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Expiration:	See vial label
Lot Number:	See vial label
Background:	HLA-DR, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system.
References:	*Horejsi V, Nemeč M, Angelisova P, Kristofova H, Gorga JC, Hilgert I.: Characterization of seven new monoclonal antibodies against human DR, DR + DP and DQ1 + DQ3 antigens. Tissue Antigens. 1986 Nov;28(5):288-97.

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