

TECHNICAL DATA SHEET

CyFlow™ HLA-DR Purified Anti-Hu; Clone HL-39

REF CH987918

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	HLA-DR
Alternative Names	—
Clone	HL-39
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG3
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Raji cells: human Burkitt's lymphoma cell line

Specificity

The mouse monoclonal antibody HL-39 recognizes common epitope on human HLA-DR antigen which is dependent on the association of α and β chains. Recognized epitope is conserved after fixation with

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glutaraldehyde and formaldehyde. DR is the isotype of human MHC Class II molecules expressed on antigen-presenting cells (APC; dendritic cells, B lymphocytes, monocytes, macrophages).

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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 α chain and 27 kDa β 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, Nemec 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. < PMID: 2435017 >
- Hovden AO, Karlsen M, Jonsson R, Aarstad HJ, Appel S: Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. BMC Immunol. 2011 Jan 5; 12:2. < PMID: 21208424 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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