abcam

ab28323

FITC Anti-HLA-DR antibody [MEM-12]

Anti-HLA-DR antibody [MEM-12] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [MEM-12] is a mouse monoclonal antibody cited in 6 publications.

Design your panel with our interactive flow cytometry panel builder. Click here.

Lab Essentials

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing HLA-DRA protein. The exact immunogen used to generate this antibody is proprietary information. Database link P01903
Clone number	MEM-12
Purification technique	Affinity purification Protein A
Light chain type	kappa
Purification notes	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC). The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	20 µL for 10^6 Cells
Notes	Use 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. ab106163 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information HLA-DRA

Function	An alpha chain of antigen-presenting major histocompatibility complex class II (MHCII) molecule. In complex with the beta chain HLA-DRB, displays antigenic peptides on professional antigen presenting cells (APCs) for recognition by alpha-beta T cell receptor (TCR) on HLA-DR-restricted CD4-positive T cells. This guides antigen-specific T-helper effector functions, both antibody-mediated immune response and macrophage activation, to ultimately eliminate the infectious agents and transformed cells (PubMed:15265931, PubMed:15322540, PubMed:17334368, PubMed:22327072, PubMed:24190431, PubMed:27591323, PubMed:29884618, PubMed:31495665, PubMed:8145819, PubMed:9075930). Typically presents extracellular peptide antigens of 10 to 30 amino acids that arise from proteolysis of endocytosed antigens in lysosomes (PubMed:8145819). In the tumor microenvironment, presents antigenic peptides that are primarily generated in tumor-resident APCs likely via phagocytosis of apoptotic tumor cells or macropinocytosis of secreted tumor proteins (PubMed:31495665). Presents peptides derived from intracellular proteins that are trapped in autolysosomes after macroautophagy, a mechanism especially relevant for T cell selection in the thymus and central immune tolerance (PubMed:17182262, PubMed:23783831). The selection of the immunodominant epitopes follows two processing modes: 'bind first, cut/trim later' for pathogen-derived antigenic peptides and 'cut first, bind later' for autoantigens/self-peptides (PubMed:25413013). The anchor residue at position 1 of the peptide N-terminus, usually a large hydrophobic residue, is essential for high affinity interaction with MHCII molecules (PubMed:8145819).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

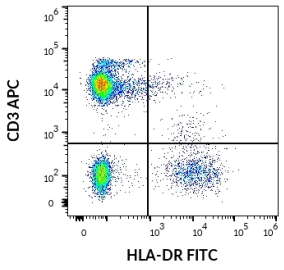
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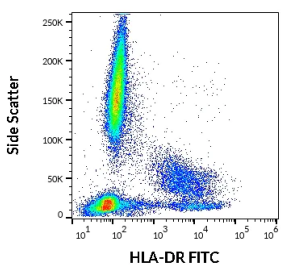
3 product images



Flow Cytometry - FITC Anti-HLA-DR antibody [MEM-12] (ab28323)

HLA-DR Flow Cytometry staining of Human peripheral blood using mouse Anti-HLA-DR antibody

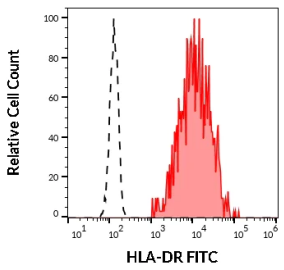
Flow cytometry multicolor surface staining pattern of human lymphocytes using ab28323 (20 µl reagent / 100 µl of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-HLA-DR antibody [MEM-12] (ab28323)

HLA-DR Flow Cytometry staining of Human peripheral blood using mouse Anti-HLA-DR antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab28323 (20 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-HLA-DR antibody [MEM-12] (ab28323)

HLA-DR Flow Cytometry staining of Human peripheral blood using mouse Anti-HLA-DR antibody

Separation of human HLA-DR positive CD3 negative lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab28323 (20 ul reagent / 100 ul of peripheral whole blood).

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