abcam

ab1182

FITC Anti-HLA-DR antibody [LN3]

Anti-HLA-DR antibody [LN3] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [LN3] is a mouse monoclonal antibody cited in 90 publications.

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Key facts

Isotype	IgG2b
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.5% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	LN3
Purification technique	Affinity purification Immunogen
Specificity	This antibody recognizes Human class II histocompatibility antigen.
Light chain type	unknown
Concentration	0.02 - 0.025 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1 µL for 10^6 Cells
Notes	Characterization of leukemias in human lysed whole peripheral blood or mononuclear cells separated by density gradient. Identification of HLA DR tumors. HLA-DR (FITC) immunofluorescence analysis can be performed on a flow cytometerequipped with an excitation source of 488nm and fitted with logarithmic amplifiers. ab91368 - Mouse monoclonal IgG2b, 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.

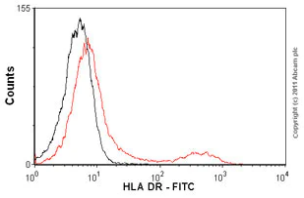
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1 product image



Flow Cytometry - FITC Anti-HLA-DR antibody [LN3] (ab1182)

HLA-DR Flow Cytometry staining using mouse Anti-HLA-DR antibody

Overlay histogram showing peripheral blood lymphocytes stained with ab1182 (red line). The cells incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab1182, 0.01 µg/1x10^6 cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b FITC (0.1 µg/1x10^6 cells) for 30 min at 22°C. Acquisition of >5,000 events was performed.

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